Principal Investigators
Stacey Ciancio, Researcher/Writer
Janet Coulon, Curriculum Research Associate
James R. Gleason, President
April Miller, Curriculum Research Associate
Beth M. Osteen, Vice President, Research and Development
Jane Wright, Curriculum Research Associate

Business Management and Administration
Cluster Report
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Marketing Education Resource Center
1375 King Avenue, Columbus, OH 43212
PH: 800-448-0398 • Fax: 614-486-1819
e-mail: service@Mark-ED.com • www.Mark-ED.org
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The Business Management and Administration Cluster consists of key business functions performed in businesses of all types and sizes. The scope of responsibility associated with each function varies based on company size. Employees in small companies, for example, may be expected to perform a wide variety of business functions, while employees in large companies specialize in one specific aspect of a business function.

Regardless of company size, employees performing business functions are expected to deliver quality “products” and minimize business expenses. They are expected to meet and surpass standards, while developing innovative approaches and strategies. In short, these employees are vital to the success and ongoing existence of a business organization.

All this must be done in a climate of change, for today’s businesses and industries are changing at a rapid and dramatic pace. Technology, globalization, the costs of benefits, and regulatory issues are among the factors affecting how businesses operate. Effective management skills and knowledge are essential for both business and professional survival in this time of change, and effective business management and administration education provides this knowledge and these skills.

Background
In 2001, the U.S. Department of Education’s Office of Vocational and Adult Education identified 16 broad occupational groupings known as career clusters to address all career possibilities—everything from agriculture to law. The intent of the initiative was to provide an educational framework to guide students as they pursued postsecondary education and their careers.

MarkED was chosen to lead the content development for three clusters. These clusters include:

1. Business, Management, and Administration (now referred to as Business Management and Administration)
2. Finance
3. Marketing, Sales, and Service (now referred to as Marketing)

While conducting the cluster work, MarkED staff recognized that career opportunities in these three clusters are closely related in that they address business functions. Viewed together, these clusters represent a comprehensive Business Administration model that might be used as majors within the total business curriculum. This approach is consistent with that utilized in colleges.

Both secondary and primary research efforts were undertaken to address the Business Management and Administration (BMA) Cluster. The secondary research consisted of a thorough review of printed and electronic literature. Over the course of two years, a variety of resources were studied to further define the cluster, identify the pathways within the cluster, determine career opportunities within each pathway, identify labor market needs, ascertain applicable degrees and certifications, and identify existing standards, both industry-based and educational. Resources analyzed included career literature; professional organizations’ certifications, designations, content of professional examinations, research findings, etc.; professional standards; state educational standards; postsecondary degrees, course offerings, and course syllabi; college, trade, and professional texts; and labor statistics.
Primary research entailed communication with staff of the States’ Career Cluster Initiative, human resources managers, state supervisors of career-technical education, and deans of business at postsecondary institutions. Data were collected at meetings with panels of business executives, in validation panels with business representatives from each Business Management and Administration Pathway, and with groups of secondary business teachers. Electronic and mailed surveys were administered to collect input from a variety of educational and business stakeholders.

Forty-five industry validation panels were conducted in 19 states between August 2004 and May 2007. States represented include:

- Connecticut
- Florida (3)
- Georgia (3)
- Indiana (3)
- Kansas
- Kentucky
- Maryland (1)
- Missouri (2)
- New Hampshire
- New Mexico
- North Carolina (5)
- Ohio (4)
- Oklahoma
- Tennessee
- Texas (2)
- Virginia
- Nebraska (2)
- Washington (2)
- Wisconsin

Initially, the information obtained from the validation panels was synthesized to identify feedback common across the Business Management and Administration, Finance, and Marketing Clusters and to determine content specific to the various business management and administration pathways. The validation panels provided feedback on the career pathways identified in the initial version of the States’ Career Cluster Initiative, while gaps in the career pathways and curricular content were also identified. Focus-group participants interviewed later in the research process reacted to the revised pathway definitions, knowledge and skill statements, performance elements, and performance indicators.

**Curricular Structure**

To reflect the States’ Career Cluster Initiative, Knowledge and Skill Statements were written for each instructional area addressed in the Business Management and Administration Cluster. Its curricular structure was divided into four tiers of specificity: a broadly based Business Administration Core, Business Management and Administration Core, Business Management and Administration Pathways, and Business Management and Administration Specialties.

**Tier 1: Business Administration Core**

This tier represented the skills and knowledge that were identified as common across the business-related clusters of Business Management and Administration, Finance, and Marketing. The Business Administration Core is composed of 13 instructional areas: Business Law, Communication Skills, Customer Relations, Economics, Emotional Intelligence, Entrepreneurship, Financial Analysis, Human Resources Management, Information Management, Marketing, Operations, Professional Development, and Strategic Management.
Tier 2: Business Management and Administration Core
The second tier of specificity represented the skills and knowledge that were identified as common across the five business management and administration pathways. The instructional areas addressed in this tier include Customer Relations, Knowledge Management, Project Management, Quality Management, and Risk Management.

Tier 3: Business Management and Administration Pathways
This tier addressed the content of a variety of broad-based occupational opportunities called Pathways. To aid in determining when a particular set of knowledge and skills constituted a pathway, MarkED researchers established criteria that must be present for a pathway to exist. These criteria are:
- Presence of a discrete, core body of knowledge
- Existence of a career ladder
- Extent of professional certification and training
- Existence of professional association(s)
- Critical mass in terms of number of jobs

The Business Management and Administration Pathways addressed in the initial States’ Career Cluster Initiative were analyzed to determine whether modifications were needed. Primary and secondary research indicated that the pathways to be addressed in the Business Management and Administration Cluster had changed since the original work was conducted.
- Management was changed to General Management to differentiate the pathway from the cluster. This pathway is much like the original work, but with an added emphasis on strategic management.
- Business Financial Management and Accounting was shortened to Accounting and moved to the Finance Cluster.
- Human Resources was changed to Human Resources Management to emphasize the pathway’s increased focus on management.
- Business Analysis was expanded and changed to Business Information Management to reflect many four-year institutions’ recent movement toward embedding more technical coursework into their business programs.
- Marketing was dropped as a pathway due to the existence of an entire career cluster devoted to marketing.
- Administrative and Information Support was changed to Administrative Services to focus on higher levels skills currently in demand in administrative services.
- Operations Management was added as a pathway to reflect the emphasis of Operations Management in business.

The original Business Management and Administration (BMA) Pathway titles are identified in Figure 1 along with the 2007 title modifications.
Tier 4: Business Management and Administration Specialties
The final tier of specificity for the Business Management and Administration Cluster has not yet been addressed. The final tier will contain curricular content unique to a product/service and will address job opportunities associated with each pathway. In Administrative Services, for example, some job opportunities are executive assistant, administrative assistant, office manager, and customer service representative.

Curricular Model Components
The curricular content was organized into Knowledge and Skill Statements, Performance Elements, and Performance Indicators. Definitions and examples are as follows:

Knowledge and Skill Statement
A broad level of knowledge and skill that encapsulates the overarching intent/purpose of a work function

Characteristics:
- Broad-based
- Not measurable in and of itself
- Scope determined through more specific units of work or specific learning expectations

Comparable to:
- Content standard
- Unit of instruction

Examples:
1. Communication Skills: Understands the concepts, strategies, and systems used to obtain and convey ideas and information
2. Financial Analysis: Understands tools, strategies, and systems used to maintain, monitor, control, and plan the use of financial resources

The Knowledge and Skill Statements developed for the Business Management and Administration Cluster are as follows:

Business Law: Understands business’s responsibility to know, abide by, and enforce laws and regulations that affect business operations and transactions
Communication Skills: Understands the concepts, strategies, and systems used to obtain and convey ideas and information

Customer Relations: Understands the techniques and strategies used to foster positive, ongoing relationships with customers

Economics: Understands the economic principles and concepts fundamental to business operations

Emotional Intelligence: Understands techniques, strategies, and systems used to foster self-understanding and enhance relationships with others

Entrepreneurship: Understands the concepts, processes, and skills associated with identifying new ideas, opportunities, and methods and with creating or starting a new project or venture

Financial Analysis: Understands tools, strategies, and systems used to maintain, monitor, control, and plan the use of financial resources

Human Resource Management: Understands the tools techniques, and systems that businesses use to plan, staff, lead, and organize its human resources

Information Management: Understands tools, strategies, and systems needed to access, process, maintain, evaluate, and disseminate information to assist business decision-making

Knowledge Management: understands the systems, strategies, and techniques used to collect, organize, analyze, and share information known in an organization

Marketing: Understands the tools, techniques, and systems that businesses use to create exchanges and satisfy organizational objectives

Operations: Understands the processes and systems implemented to monitor, plan, and control the day-to-day activities required for continued business functioning

Professional Development: Understands concepts, tools, and strategies used to explore, obtain, and develop in a business career

Project Management: Understands tools, techniques, and systems that are used to plan, implement, monitor, and evaluate business projects

Quality Management: Understands the need for standards and the strategies and techniques used to implement, monitor, and evaluate them
Risk Management: Understands risk-management strategies and techniques used to minimize business loss

Strategic Management: Understands tools, techniques, and systems that affect a business’s ability to plan, control, and organize an organization/department

Performance Element
Multiple broad-based work or cognitive performances that define the Knowledge and Skill statement and that are further defined by a series of related performance indicators

Comparable to:
Duty area
Major topic

Characteristics:
Subset of Knowledge and Skill statements
Measured through performance indicators

Examples for Communication Skills:
1. Read to acquire meaning from written material and to apply the information to a task.
2. Apply active listening skills to demonstrate understanding of what is being said.
3. Apply verbal skills to obtain and convey information.
4. Record information to maintain and present a report of business activity.
5. Write internal and external business correspondence to convey and obtain information effectively.
6. Communicate with staff to clarify workplace objectives.

Performance Indicator
A specific work-based action—either knowledge or skill—that specifies what a worker must know or be able to do to achieve the performance element.

Comparable to:
Task
Competency

Characteristics:
Measurable; quality of work can be determined
Can be performed by an individual worker
Specific/detailed vs. open to interpretation

Not:
Steps in a process
A learning/classroom activity

Examples for Communication Skills: Read to acquire meaning from written material and to apply the information to a task.
1. Identify sources that provide relevant, valid written material
2. Extract relevant information from written materials
3. Apply written directions to achieve tasks
4. Analyze company resources to ascertain policies
Curriculum-Planning Levels
Each performance indicator was assigned to one of six curriculum-planning levels: prerequisite, career-sustaining, specialist, supervisor, manager, and owner. These levels represented a continuum of instruction ranging from simple to complex and can serve as building blocks for curriculum development in that students should know and be able to perform the skills and knowledge at one level before tackling more complex ones at the next level. These levels can also be used as the basis for developing an unduplicated sequence of instruction for articulation between high school and postsecondary marketing courses. The six curriculum-planning levels are defined as:

**Prerequisite (PQ)** Content develops employability and job-survival skills and concepts, including work ethics, personal appearance, and general business behavior.

**Career-Sustaining (CS)** Content develops skills and knowledge needed for continued employment in or study of marketing based on the application of basic academics and marketing skills.

**Specialist (SP)** Content provides in-depth, solid understanding and skill development in all marketing functions.

**Supervisor (SU)** Content provides the same in-depth, solid understanding and skill development in all marketing functions as in the marketing-specialist curriculum, and in addition, incorporates content that addresses the supervision of people.

**Manager (MN)** Content develops strategic decision-making skills in all marketing functions needed to manage a business or department within an organization.

**Owner (ON)** Content develops strategic decision-making skills in all aspects of marketing that are needed to own and operate a business.

The curricular content for the Business Management and Administration Cluster is presented on the following pages. The content has been divided into the Business Administration Core, the Business Management and Administration Core, and the five Business Management and Administration Pathways. Some agencies may choose to integrate the Business Administration Core and Business Management and Administration Core in which case the two combined cores would be labeled as the Business Management and Administration Core.
Instructional Area: Business Law

Knowledge and Skill Statement: Understands business’s responsibility to know, abide by, and enforce laws, regulations, and ethical behavior that affect business operations and transactions.

Performance Element: Acquire foundational knowledge of business laws and regulations to understand their nature and scope.

Performance Indicators:
- Discuss the nature of law and sources of law in the United States (BL:067) (SP)
- Describe the United States’ judicial system (BL:068) (SP)
- Describe legal issues affecting businesses (BL:001) (SP)

Performance Element: Understand the civil foundations of the legal environment of business to demonstrate knowledge of contracts.

Performance Indicators:
- Identify the basic torts relating to business enterprises (BL:069) (SP)
- Describe the nature of legally binding contracts (BL:002) (SP)

Performance Element: Explore the regulatory environment of United States’ businesses to understand the diversity of regulations.

Performance Indicators:
- Describe the nature of legal procedure (BL:070) (SP)
- Discuss the nature of debtor-creditor relationships (BL:071) (SP)
- Explain the nature of agency relationships (BL:072) (SP)
- Discuss the nature of environmental law (BL:073) (SP)
- Discuss the role of administrative law (BL:074) (SP)

Performance Element: Understand human-resources laws and regulations to facilitate business operations.

Performance Indicators:
- Explain the nature of human resources regulations (BL:007) (SU)
- Explain the nature of workplace regulations (including OSHA, ADA) (BL:008) (SU)
- Discuss employment relationships (BL:075) (SU)

Performance Element: Apply knowledge of business ownership to establish and continue business operations.

Performance Indicators:
- Explain types of business ownership (BL:003, BA LAP 7) (CS)
- Select form of business ownership (BL:006, BA LAP 9) (ON)

1 Referred to as Cluster/Pathway Topic in the States’ Career Cluster Initiative
2 Referred to as Measurement Criteria in the States’ Career Cluster Initiative
Performance Element: Acquire knowledge of commerce laws and regulations to continue business operations.

Performance Indicators:
Explain the nature of trade regulations (BL:004) (MN)
Describe the impact of anti-trust legislation (BL:076) (MN)

Performance Element: Understand tax laws and regulations to adhere to government requirements.

Performance Indicators:
Explain the nature of tax regulations on business (BL:009) (ON)
Explain the nature of businesses’ reporting requirements (BL:010) (ON)
Develop strategies for legal/government compliance (BL:011) (ON)

Instructional Area: Communication Skills

Knowledge and Skill Statement: Understands the concepts, strategies, and systems used to obtain and convey ideas and information

Performance Element: Read to acquire meaning from written material and to apply the information to a task.

Performance Indicators:
Identify sources that provide relevant, valid written material (CO:054) (PQ)
Extract relevant information from written materials (CO:055) (PQ)
Apply written directions to achieve tasks (CO:056) (PQ)
Analyze company resources to ascertain policies and procedures (CO:057) (CS)

Performance Element: Apply active listening skills to demonstrate understanding of what is being said.

Performance Indicators:
Explain communication techniques that support and encourage a speaker (CO:082) (PQ)
Follow oral directions (CO:119) (PQ)
Demonstrate active listening skills (CO:017) (PQ)
Performance Element: Apply verbal skills to obtain and convey information.
Performance Indicators:
- Explain the nature of effective verbal communications (CO:147) (PQ)
- Ask relevant questions (CO:058) (PQ)
- Interpret others’ nonverbal cues (CO:059) (PQ)
- Provide legitimate responses to inquiries (CO:060) (PQ)
- Give verbal directions (CO:083) (PQ)
- Employ communication styles appropriate to target audience (CO:084) (CS)
- Defend ideas objectively (CO:061) (CS)
- Handle telephone calls in a businesslike manner (CO:114) (CS)
- Participate in group discussions (CO:053) (CS)
- Make oral presentations (CO:025) (SP)

Performance Element: Record information to maintain and present a report of business activity.
Performance Indicators:
- Utilize note-taking strategies (CO:085) (CS)
- Organize information (CO:086) (CS)
- Select and use appropriate graphic aids (CO:087) (CS)

Performance Element: Write internal and external business correspondence to convey and obtain information effectively.
Performance Indicators:
- Explain the nature of effective written communications (CO:016) (CS)
- Select and utilize appropriate formats for professional writing (CO:088) (CS)
- Edit and revise written work consistent with professional standards (CO:089) (CS)
- Write professional e-mails (CO:090) (CS)
- Write business letters (CO:133) (CS)
- Write informational messages (CO:039) (CS)
- Write inquiries (CO:040) (CS)
- Write persuasive messages (CO:031) (SP)
- Write executive summaries (CO:091) (SP)
- Prepare simple written reports (CO:094) (SP)
- Prepare complex written reports (CO:009) (MN)
- Write proposals (CO:062) (MN)
Performance Element: Communicate with staff to clarify workplace objectives.

Performance Indicators:
- Explain the nature of staff communication (CO:014) (CS)
- Choose appropriate channel for workplace communication (CO:092) (CS)
- Participate in a staff meeting (CO:063) (CS)
- Provide directions for completing job tasks (CO:139) (SU)
- Update employees on business and economic trends (CO:172) (SU)
- Conduct a staff meeting (CO:140) (SU)

Instructional Area: Customer Relations

Knowledge and Skill Statement: Understands the techniques and strategies used to foster positive, ongoing relationships with customers

Performance Element: Foster positive relationships with customers to enhance company image.

Performance Indicators:
- Explain the nature of positive customer relations (CR:003) (CS)
- Demonstrate a customer-service mindset (CR:004, HR LAP 32) (CS)
- Reinforce service orientation through communication (CR:005) (CS)
- Respond to customer inquiries (CR:006) (CS)
- Interpret business policies to customers/clients (CR:007, HR LAP 25) (CS)
- Explain management’s role in customer relations (CR:008) (MN)

Performance Element: Resolve conflicts with/for customers to encourage repeat business.

Performance Indicators:
- Handle difficult customers (CR:009, EI LAP 1) (CS)
- Handle customer/client complaints (CR:010, HR LAP 23) (CS)

Performance Element: Reinforce company’s image to exhibit the company’s brand promise.

Performance Indicators:
- Identify company’s brand promise (CR:001) (CS)
- Determine ways of reinforcing the company’s image through employee performance (CR:002) (CS)
Performance Element: Understand the nature of customer relationship management to show its contributions to a company.

Performance Indicators:
Discuss the nature of customer relationship management (CR:016) (CS)
Explain the role of ethics in customer relationship management (CR:017) (SP)
Describe the use of technology in customer relationship management (CR:018) (SP)

Instructional Area: Economics

Knowledge and Skill Statement: Understands the economic principles and concepts fundamental to business operations

Performance Element: Understand fundamental economic concepts to obtain a foundation for employment in business.

Performance Indicators:
Distinguish between economic goods and services (EC:002, EC LAP 10) (CS)
Explain the concept of economic resources (EC:003, EC LAP 14) (CS)
Describe the concepts of economics and economic activities (EC:001, EC LAP 6) (CS)
Determine economic utilities created by business activities (EC:004, EC LAP 13) (CS)
Explain the principles of supply and demand (EC:005, EC LAP 11) (CS)
Describe the functions of prices in markets (EC:006, EC LAP 12) (CS)

Performance Element: Understand the nature of business to show its contributions to society.

Performance Indicators:
Explain the role of business in society (EC:070, MB LAP 6) (CS)
Describe types of business activities (EC:071, EC LAP 19) (CS)
Explain the organizational design of businesses (EC:103) (SP)
Discuss the global environment in which businesses operate (EC:104) (SP)
Describe factors that affect the business environment (EC:105) (SP)
Explain the nature of business ethics (EC:106) (SP)
Explain how organizations adapt to today’s markets (EC:107) (SP)
Performance Element: Understand economic systems to be able to recognize the environments in which businesses function.

Performance Indicators:
- Explain the types of economic systems (EC:007, EC LAP 17) (CS)
- Explain the concept of private enterprise (EC:009, EC LAP 15) (CS)
- Identify factors affecting a business’s profit (EC:010, EC LAP 2) (CS)
- Determine factors affecting business risk (EC:011, EC LAP 3) (CS)
- Explain the concept of competition (EC:012, EC LAP 8) (CS)
- Describe market structures (EC:075) (SP)

Performance Element: Acquire knowledge of the impact of government on business activities to make informed economic decisions.

Performance Indicators:
- Determine the relationship between government and business (EC:008, EC LAP 16) (CS)
- Describe the nature of taxes (EC:072) (SP)
- Discuss the nature of monetary policy (EC:073) (MN)
- Discuss the supply and demand for money (EC:096) (MN)
- Explain the role of the Federal Reserve System (EC:097) (MN)
- Explain the concept of fiscal policies (EC:074) (MN)
- Describe the effects of fiscal and monetary policies (EC:098) (MN)

Performance Element: Analyze cost/profit relationships to guide business decision-making.

Performance Indicators:
- Explain the concept of productivity (EC:013, EC LAP 18) (CS)
- Analyze impact of specialization/division of labor on productivity (EC:014, EC LAP 7) (SP)
- Explain the concept of organized labor and business (EC:015, EC LAP 5) (SP)
- Explain the impact of the law of diminishing returns (EC:023) (SP)
- Describe the concept of economies of scale (EC:077) (MN)

Performance Element: Understand economic indicators to recognize economic trends and conditions.

Performance Indicators:
- Describe the concept of price stability as an economic measure (EC:080) (SP)
- Discuss the measure of consumer spending as an economic indicator (EC:081) (SP)
- Discuss the impact of a nation’s unemployment rates (EC:082) (SP)
- Describe the economic impact of inflation on business (EC:083) (SP)
- Explain unemployment and inflation tradeoffs (EC:099) (SP)
- Explain the economic impact of interest-rate fluctuations (EC:084) (SP)
- Determine the impact of business cycles on business activities (EC:018, EC LAP 9) (SP)
Performance Element: Determine global trade’s impact on business decision-making.
Performance Indicators:
- Explain the nature of global trade (EC:016, EC LAP 4) (SP)
- Describe the determinants of exchange rates and their effects on the domestic economy (EC:100) (SP)
- Discuss the impact of cultural and social environments on global trade (EC:045) (SP)
- Explain labor issues associated with global trade (EC:101) (SU)

Instructional Area: Emotional Intelligence

Knowledge and Skill Statement: Understands techniques, strategies, and systems used to foster self-understanding and enhance relationships with others

Performance Element: Foster self-understanding to recognize the impact of personal feelings on others.
Performance Indicators:
- Describe the nature of emotional intelligence (EI:001, EI LAP 6) (PQ)
- Explain the concept of self esteem (EI:016, HR LAP 12) (PQ)
- Recognize personal biases and stereotypes (EI:017) (PQ)
- Assess personal strengths and weaknesses (EI:002) (PQ)

Performance Element: Develop personal traits to foster career advancement.
Performance Indicators:
- Identify desirable personality traits important to business (EI:018, HR LAP 10) (PQ)
- Exhibit self-confidence (EI:023) (PQ)
- Demonstrate interest and enthusiasm (EI:020, HR LAP 20) (PQ)
- Demonstrate initiative (EI:024, HR LAP 14) (PQ)

Performance Element: Apply ethics to demonstrate trustworthiness.
Performance Indicators:
- Demonstrate responsible behavior (EI:021, PD LAP 7) (PQ)
- Demonstrate honesty and integrity (EI:022, HR LAP 19) (PQ)
- Demonstrate ethical work habits (EI:004, EI LAP 4) (PQ)

Performance Element: Exhibit techniques to manage emotional reactions to people and situations.
Performance Indicators:
- Maintain positive attitude (EI:019, EI LAP 3) (PQ)
- Demonstrate self control (EI:025, HR LAP 18) (PQ)
- Explain the use of feedback for personal growth (EI:003, HR LAP 3) (PQ)
- Adjust to change (EI:026, HR LAP 8) (PQ)
Performance Element: Identify with others’ feelings, needs, and concerns to enhance interpersonal relations.

Performance Indicators:
Respect the privacy of others (EI:029) (PQ)
Show empathy for others (EI:030, HR LAP 17) (PQ)
Exhibit cultural sensitivity (EI:033) (CS)

Performance Element: Use communication skills to foster open, honest communications.

Performance Indicators:
Explain the nature of effective communications (EI:007) (PQ)
Explain ethical considerations in providing information (EI:038) (SP)

Performance Element: Use communication skills to influence others.

Performance Indicators:
Persuade others (EI:012) (SP)
Demonstrate negotiation skills (EI:062, EI LAP 8) (SP)

Performance Element: Manage stressful situations to minimize negative workplace interactions.

Performance Indicators:
Use appropriate assertiveness (EI:008, HR LAP 16) (PQ)
Use conflict-resolution skills (EI:015, EI LAP 7) (CS)
Explain the nature of stress management (EI:028) (SP)

Performance Element: Implement teamwork techniques to accomplish goals.

Performance Indicators:
Participate as a team member (EI:045) (CS)
Use consensus-building skills (EI:011) (SP)
Motivate team members (EI:059) (SP)
Encourage team building (EI:044) (SU)
Performance Element: Employ leadership skills to achieve workplace objectives.
Performance Indicators:
- Explain the concept of leadership (EI:009) (CS)
- Determine personal vision (EI:063) (CS)
- Demonstrate adaptability (EI:006) (CS)
- Develop an achievement orientation (EI:027) (CS)
- Lead change (EI:005) (CS)
- Enlist others in working toward a shared vision (EI:060) (CS)
- Coach others (EI:041) (CS)
- Recognize/Reward others for their efforts and contributions (EI:014) (SU)

Performance Element: Manage internal and external business relationships to foster positive interactions.
Performance Indicators:
- Treat others fairly at work (EI:036, HR LAP 24) (PQ)
- Foster positive working relationships (EI:037, EI LAP 5) (CS)
- Maintain collaborative partnerships with colleagues (EI:061) (SP)
- Explain the impact of political relationships within an organization (EI:034) (SP)
- Explain the nature of organizational culture (EI:064) (MN)

Instructional Area: Entrepreneurship

Knowledge and Skill Statement: Understands the concepts, processes, and skills associated with identifying new ideas, opportunities, and methods and with creating or starting a new project or venture

Performance Element: Employ entrepreneurial discovery strategies to generate feasible ideas for business ventures.
Performance Indicators:
- Explain the need for entrepreneurial discovery (EN:001) (ON)
- Discuss entrepreneurial discovery processes (EN:002) (ON)
- Assess global trends and opportunities for business ventures (EN:003) (ON)
- Determine opportunities for venture creation (EN:004) (ON)
- Assess opportunities for venture creation (EN:005) (ON)
- Generate venture ideas (EN:006) (ON)
Performance Element: Develop concept for new business venture to evaluate its success potential.

Performance Indicators:
Describe entrepreneurial planning considerations (EN:007) (ON)
Explain tools used by entrepreneurs for venture planning (EN:008) (ON)
Assess start-up requirements (EN:009) (ON)
Assess risks associated with venture (EN:010) (ON)
Describe external resources useful to entrepreneurs during concept development (EN:011) (ON)
Assess the need to use external resources for concept development (EN:012) (ON)
Describe strategies to protect intellectual property (EN:013) (ON)
Use components of business plan to define venture idea (EN:014) (ON)

Performance Element: Determine needed resources for a new business venture to contribute to its start-up viability.

Performance Indicators:
Describe processes used to acquire adequate financial resources for venture creation/start-up (EN:015) (ON)
Select sources to finance venture creation/start-up (EN:016) (ON)
Explain factors to consider in determining a venture’s human-resources needs (EN:017) (ON)
Explain considerations in making the decision to hire staff (EN:018) (ON)
Describe considerations in selecting capital resources (EN:019) (ON)
Identify capital resources needed for the venture (EN:020) (ON)
Assess the costs/benefits associated with resources (EN:021) (ON)

Performance Element: Actualize new business venture to generate profit and/or meet objectives.

Performance Indicators:
Use external resources to supplement entrepreneur’s expertise (EN:022) (ON)
Explain the complexity of business operations (EN:023) (ON)
Evaluate risk-taking opportunities (EN:024) (ON)
Explain the need for business systems and procedures (EN:025) (ON)
Describe the use of operating procedures (EN:026) (ON)
Explain methods/processes for organizing work flow (EN:027) (ON)
Develop and/or provide product/service (EN:028) (ON)
Use creative problem-solving in business activities/decisions (EN:029) (ON)
Explain the impact of resource productivity on venture success (EN:030) (ON)
Create processes for ongoing opportunity recognition (EN:031) (ON)
Develop plan to invest resources into improving current products or creating new ones (EN:032) (ON)
Adapt to changes in business environment (EN:033) (ON)
Performance Element: Select harvesting strategies to identify entrepreneur’s role in the business venture.

Performance Indicators:
- Explain the need for continuation planning (EN:034) (ON)
- Describe methods of venture harvesting (EN:035) (ON)
- Evaluate options for continued venture involvement (EN:036) (ON)
- Develop exit strategies (EN:037) (ON)

Instructional Area: Financial Analysis

Knowledge and Skill Statement: Understands tools, strategies, and systems used to maintain, monitor, control, and plan the use of financial resources

Performance Element: Understand the fundamental principles of money needed to make financial exchanges.

Performance Indicators:
- Explain forms of financial exchange (cash, credit, debit, electronic funds transfer, etc.) (FI:058) (PQ)
- Identify types of currency (paper money, coins, banknotes, government bonds, treasury notes, etc.) (FI:059) (PQ)
- Describe functions of money (medium of exchange, unit of measure, store of value) (FI:060) (PQ)
- Describe sources of income (wages/salaries, interest, rent, dividends, transfer payments, etc.) (FI:061) (PQ)
- Explain the time value of money (FI:062) (CS)
- Explain the purposes and importance of credit (FI:002, FI LAP 2) (CS)
- Explain legal responsibilities associated with financial exchanges (FI:063) (CS)

Performance Element: Analyze financial needs and goals to determine financial requirements.

Performance Indicators:
- Explain the nature of financial needs (e.g., college, retirement, wills, insurance, etc.) (FI:064) (CS)
- Set financial goals (FI:065) (CS)
- Develop personal budget (FI:066) (CS)
Performance Element: Manage personal finances to achieve financial goals.

Performance Indicators:
- Explain the nature of tax liabilities (FI:067) (PQ)
- Interpret a pay stub (FI:068) (PQ)
- Read and reconcile bank statements (FI:070) (PQ)
- Maintain financial records (FI:069) (CS)
- Demonstrate the wise use of credit (FI:071) (CS)
- Validate credit history (FI:072) (CS)
- Protect against identity theft (FI:073) (CS)
- Prepare personal income tax forms (i.e., 1040 EZ form) (FI:074) (CS)

Performance Element: Understand the use of financial-services providers to aid in financial-goal achievement.

Performance Indicators:
- Describe types of financial-services providers (FI:075) (CS)
- Discuss considerations in selecting a financial-services provider (FI:076) (CS)

Performance Element: Use investment strategies to ensure financial wellbeing.

Performance Indicators:
- Explain types of investments (FI:077) (SP)
- Explain the nature of capital investment (FI:078) (MN)
- Establish investment goals and objectives (FI:079) (MN)

Performance Element: Identify potential business threats and opportunities to protect a business’s financial wellbeing.

Performance Indicators:
- Describe the concept of insurance (FI:081) (CS)
- Obtain insurance coverage (FI:082) (ON)
- Settle insurance losses (FI:083) (ON)
- Identify speculative business risks (FI:080) (MN)
- Explain the nature of risk management (FI:084, BA LAP 2) (MN)

Performance Element: Acquire a foundational knowledge of accounting to understand its nature and scope.

Performance Indicators:
- Explain the concept of accounting (FI:085, FI LAP 5) (CS)
- Explain the need for accounting standards (GAAP) (FI:086) (CS)
- Discuss the role of ethics in accounting (FI:351) (SP)
- Explain the use of technology in accounting (FI:352) (SP)
- Explain legal considerations for accounting (FI:353) (SP)
Performance Element: Implement accounting procedures to track money flow and to determine financial status.

Performance Indicators:
Describe the nature of cash flow statements (FI:091, FI LAP 6) (SP)
Prepare cash flow statements (FI:092) (MN)
Explain the nature of balance sheets (FI:093) (SP)
Describe the nature of income statements (FI:094, FI LAP 4) (SP)

Performance Element: Acquire a foundational knowledge of finance to understand its nature and scope.

Performance Indicators:
Explain the role of finance in business (FI:354) (CS)
Discuss the role of ethics in finance (FI:355) (SP)
Explain legal considerations for finance (FI:356) (SP)

Performance Element: Implement financial skills to obtain business credit and to control its use.

Performance Indicators:
Explain the purposes and importance of obtaining business credit (FI:023) (ON)
Analyze critical banking relationships (FI:039) (ON)
Make critical decisions regarding acceptance of bank cards (FI:040) (ON)
Determine financing needed for business operations (FI:043) (ON)
Identify risks associated with obtaining business credit (FI:041) (ON)
Explain sources of financial assistance (FI:031) (ON)
Explain loan evaluation criteria used by lending institutions (FI:034) (ON)
Complete loan application package (FI:033) (ON)

Performance Element: Manage financial resources to ensure solvency.

Performance Indicators:
Describe the nature of budgets (FI:106, FI LAP 3) (SP)
Explain the nature of operating budgets (FI:098) (SU)
Describe the nature of cost/benefit analysis (FI:357) (MN)
Determine relationships among total revenue, marginal revenue, output, and profit (FI:358) (MN)
Develop company’s/department’s budget (FI:099) (MN)
Forecast sales (FI:096, IM LAP 4) (MN)
Calculate financial ratios (FI:097) (MN)
Interpret financial statements (FI:102) (MN)
Instructional Area: Human Resources Management

Knowledge and Skill Statement: Understands the tools techniques, and systems that businesses use to plan, staff, lead, and organize its human resources.

Performance Element: Understand the role and function of human resources management to obtain a foundational knowledge of its nature and scope.

Performance Indicators:
- Discuss the nature of human resources management (HR:410) (CS)
- Explain the role of ethics in human resources management (HR:411) (SP)
- Describe the use of technology in human resources management (HR:412) (SP)

Performance Element: Implement organizational skills to facilitate others’ work efforts.

Performance Indicators:
- Assist employees with prioritizing work responsibilities (HR:385) (SU)
- Delegate work to others (HR:386) (SU)
- Coordinate efforts of cross-functional teams to achieve project/company goals (HR:387) (SU)
- Manage collaborative efforts (HR:388) (SU)
- Harmonize tasks, projects, and employees in the context of business priorities (HR:389) (SU)

Performance Element: Staff a business unit to satisfy work demands while adhering to budget constraints.

Performance Indicators:
- Determine hiring needs (HR:353) (SU)
- Screen job applications/resumes (HR:354) (SU)
- Interview job applicants (HR:355) (SU)
- Discuss employee compensation (HR:390) (SU)
- Select and hire new employees (HR:356) (SU)
- Conduct exit interviews (HR:357) (SU)
- Dismiss/Fire employees (HR:358) (SU)
- Maintain human resources records (HR:359) (SU)
Performance Element: Manage staff growth and development to increase productivity and employee satisfaction.

Performance Indicators:
Orient new employees (HR:360) (CS)
Orient new employees (management's role) (HR:361, MN LAP 44) (SU)
Explain the role of training and human resources development (HR:362, MN LAP 42) (SU)
Explain the nature of management/supervisory training (HR:363, MN LAP 50) (SU)
Coach employees (HR:364) (SU)
Recognize/Reward employees (HR:365) (SU)
Maintain ongoing discussion of issues related to compensation (HR:391) (SU)
Train staff (HR:392) (SU)
Supervise staff (HR:393) (SU)
Assess employee performance (HR:368) (SU)
Ensure equitable opportunities for employees (HR:367, MN LAP 55) (MN)

Performance Element: Resolve staff issues/problems to enhance productivity and improve employee relationships.

Performance Indicators:
Handle employee complaints and grievances (HR:366, MN LAP 45) (SU)
Explain issues associated with the payroll process (HR:394) (SU)
Explain the nature of remedial action (HR:369) (SU)

Instructional Area: Information Management

Knowledge and Skill Statement: Understands tools, strategies, and systems needed to access, process, maintain, evaluate, and disseminate information to assist business decision-making

Performance Element: Use information literacy skills to increase workplace efficiency and effectiveness.

Performance Indicators:
Assess information needs (NF:077) (CS)
Obtain needed information efficiently (NF:078) (CS)
Evaluate quality and source of information (NF:079) (CS)
Apply information to accomplish a task (NF:080) (CS)
Store information for future use (NF:081) (CS)
Performance Element: Acquire a foundational knowledge of information management to understand its nature and scope.

Performance Indicators:
- Discuss the nature of information management (NF:110) (CS)
- Explain the role of ethics in information management (NF:111) (SP)
- Explain legal issues associated with information management (NF:076) (SP)

Performance Element: Utilize information-technology tools to manage and perform work responsibilities.

Performance Indicators:
- Identify ways that technology impacts business (NF:003) (PQ)
- Explain the role of information systems (NF:083) (PQ)
- Discuss principles of computer systems (NF:084) (PQ)
- Use basic operating systems (NF:085) (PQ)
- Describe the scope of the Internet (NF:086) (PQ)
- Demonstrate basic e-mail functions (NF:004) (PQ)
- Demonstrate personal information management/productivity applications (NF:005) (PQ)
- Demonstrate basic web-search skills (NF:006) (PQ)
- Demonstrate basic word processing skills (NF:007) (PQ)
- Demonstrate basic presentation applications (NF:008) (PQ)
- Demonstrate basic database applications (NF:009) (PQ)
- Demonstrate basic spreadsheet applications (NF:010) (PQ)
- Use an integrated business software application package (NF:088) (CS)
- Demonstrate collaborative/groupware applications (NF:011) (CS)
- Create and post basic web page (NF:042) (SP)
- Establish specifications for selecting hardware/software systems (NF:091) (MN)
- Determine venture’s information technology needs (NF:012) (MN)

Performance Element: Maintain business records to facilitate business operations.

Performance Indicators:
- Describe the nature of business records (NF:001, NF LAP 1) (SP)
- Maintain customer records (NF:002) (SP)

Performance Element: Acquire information to guide business decision-making.

Performance Indicators:
- Describe current business trends (NF:013) (SP)
- Monitor internal records for business information (NF:014) (SP)
- Conduct an environmental scan to obtain business information (NF:015) (SP)
- Interpret statistical findings (NF:093) (SP)
Instructional Area: Marketing

Knowledge and Skill Statement: Understands the tools, techniques, and systems that businesses use to create exchanges and satisfy organizational objectives

Performance Element: Understand marketing’s role and function in business to facilitate economic exchanges with customers.

Performance Indicators:
- Explain marketing and its importance in a global economy (MK:001, BA LAP 11) (CS)
- Describe marketing functions and related activities (MK:002, MK LAP 1) (CS)

Performance Element: Acquire foundational knowledge of customer/client/business behavior to understand what motivates decision-making.

Performance Indicators:
- Explain customer/client/business buying behavior (MK:014) (CS)
- Discuss actions employees can take to achieve the company’s desired results (MK:015) (CS)
- Demonstrate connections between company actions and results (e.g., influencing consumer buying behavior, gaining market share, etc.) (MK:019) (SP)

Performance Element: Understand company’s unique selling proposition to recognize what sets the company apart from its competitors.

Performance Indicators:
- Identify company’s unique selling proposition (MK:016) (SP)
- Identify internal and external service standards (MK:017) (SP)

Instructional Area: Operations

Knowledge and Skill Statement: Understands the processes and systems implemented to monitor, plan, and control the day-to-day activities required for continued business functioning

Performance Element: Understand operation’s role and function in business to value its contribution to a company.

Performance Indicators:
- Explain the nature of operations (OP:189) (CS)
- Discuss the role of ethics in operations (OP:190) (SP)
- Describe the use of technology in operations (OP:191) (SP)
Performance Element: Adhere to health and safety regulations to support a safe work environment.
Performance Indicators:
Describe health and safety regulations in business (OP:004) (PQ)
Report noncompliance with business health and safety regulations (OP:005) (PQ)

Performance Element: Implement safety procedures to minimize loss.
Performance Indicators:
Follow instructions for use of equipment, tools, and machinery (OP:006) (PQ)
Follow safety precautions (OP:007, RM LAP 2) (PQ)
Maintain a safe work environment (OP:008) (CS)
Explain procedures for handling accidents (OP:009, RM LAP 3) (CS)
Handle and report emergency situations (OP:010) (CS)

Performance Element: Determine needed safety policies/procedures to protect employees.
Performance Indicators:
Identify potential safety issues (OP:151) (MN)
Establish safety policies and procedures (OP:012) (MN)

Performance Element: Implement security policies/procedures to minimize chance for loss.
Performance Indicators:
Explain routine security precautions (OP:013, RM LAP 4) (CS)
Follow established security procedures/policies (OP:152) (CS)
Protect company information and intangibles (OP:153) (CS)

Performance Element: Develop policies/procedures to protect workplace security.
Performance Indicators:
Identify potential security issues (OP:154) (MN)
Establish policies to protect company information and intangibles (OP:155) (MN)
Establish policies to maintain a non-hostile work environment (OP:156) (MN)
Establish policies and procedures to maintain physical security of the work environment (OP:157) (MN)
Performance Element: Utilize project-management skills to improve workflow and minimize costs.

Performance Indicators:
- Explain the nature of project management (OP:158) (SP)
- Identify resources needed for project (OP:003) (SP)
- Develop project plan (OP:001) (SP)
- Apply project-management tools to monitor project progress (OP:002) (SP)
- Evaluate project results (OP:159) (SP)

Performance Element: Implement purchasing activities to obtain business supplies, equipment, and services.

Performance Indicators:
- Explain the nature and scope of purchasing (OP:015) (CS)
- Place orders/reorders (OP:016) (CS)
- Maintain inventory of supplies (OP:031) (CS)
- Manage the bid process in purchasing (OP:160) (SP)
- Select vendors (OP:161) (SP)
- Evaluate vendor performance (OP:162) (SP)

Performance Element: Understand production’s role and function in business to recognize its need in an organization.

Performance Indicators:
- Explain the concept of production (OP:017, BA LAP 1) (CS)
- Describe production activities (OP:018) (CS)

Performance Element: Implement quality-control processes to minimize errors and to expedite workflow.

Performance Indicators:
- Identify quality-control measures (OP:163) (SP)
- Utilize quality control methods at work (OP:164) (SP)
- Describe crucial elements of a quality culture (OP:019) (SP)
- Describe the role of management in the achievement of quality (OP:020) (MN)
- Establish efficient operating systems (OP:022) (MN)
Performance Element: Implement expense-control strategies to enhance a business’s financial wellbeing.

Performance Indicators:
Explain the nature of overhead/operating costs (OP:024) (SP)
Explain employee's role in expense control (OP:025, MN LAP 56) (SP)
Control use of supplies (OP:026) (SU)
Conduct breakeven analysis (OP:192) (MN)
Negotiate service and maintenance contracts (OP:027) (MN)
Negotiate lease or purchase of facility (OP:028) (MN)
Develop expense control plans (OP:029) (MN)
Use budgets to control operations (OP:030) (MN)

Performance Element: Maintain property and equipment to facilitate ongoing business activities.

Performance Indicators:
Identify routine activities for maintaining business facilities and equipment (OP:032) (SP)
Plan maintenance program (OP:033) (MN)

Instructional Area: Professional Development

Knowledge and Skill Statement: Understands concepts, tools, and strategies used to explore, obtain, and develop in a business career

Performance Element: Acquire self-development skills to enhance relationships and improve efficiency in the work environment.

Performance Indicators:
Maintain appropriate personal appearance (PD:002, PD LAP 5) (PQ)
Demonstrate systematic behavior (PD:009, HR LAP 4) (PQ)
Set personal goals (PD:018, HR LAP 6) (CS)

Performance Element: Utilize critical-thinking skills to determine best options/outcomes.

Performance Indicators:
Explain the need for innovation skills (PD:126) (CS)
Make decisions (PD:017, PD LAP 10) (CS)
Demonstrate problem-solving skills (PD:077, IS LAP 2) (CS)
Demonstrate appropriate creativity (PD:012, PD LAP 2) (SP)
Use time-management skills (PD:019, OP LAP 1) (SP)
Performance Element: Participate in career-planning to enhance job-success potential.
Performance Indicators:
- Assess personal interests and skills needed for success in business (PD:013, HR LAP 2) (PQ)
- Analyze employer expectations in the business environment (PD:020) (PQ)
- Explain the rights of workers (PD:021) (PQ)
- Identify sources of career information (PD:022) (CS)
- Identify tentative occupational interest (PD:023) (CS)
- Explain employment opportunities in business (PD:025, PD LAP 15) (CS)

Performance Element: Implement job-seeking skills to obtain employment.
Performance Indicators:
- Utilize job-search strategies (PD:026) (PQ)
- Complete a job application (PD:027) (PQ)
- Interview for a job (PD:028) (PQ)
- Write a follow-up letter after job interviews (PD:029) (CS)
- Write a letter of application (PD:030) (CS)
- Prepare a résumé (PD:031) (CS)
- Use networking techniques to identify employment opportunities (PD:037) (SP)

Performance Element: Utilize career-advancement activities to enhance professional development.
Performance Indicators:
- Describe techniques for obtaining work experience (e.g., volunteer activities, internships) (PD:032) (PQ)
- Explain the need for ongoing education as a worker (PD:033) (PQ)
- Explain possible advancement patterns for jobs (PD:034) (PQ)
- Identify skills needed to enhance career progression (PD:035) (SP)
- Utilize resources that can contribute to professional development (e.g., trade journals/periodicals, professional/trade associations, classes/seminars, trade shows, and mentors) (PD:036, CD LAP 1) (SP)

Instructional Area: Strategic Management

Knowledge and Skill Statement: Understands tools, techniques, and systems that affect a business’s ability to plan, control, and organize an organization/department

Performance Element: Recognize management’s role to understand its contribution to business success.
Performance Indicators:
- Explain the concept of management (SM:001, BA LAP 6) (CS)
- Explain the nature of managerial ethics (SM:002) (MN)
Performance Element: Utilize planning tools to guide organization’s/department’s activities.

Performance Indicators:
- Explain the nature of business plans (SM:007, SM LAP 1) (MN)
- Develop company goals/objectives (SM:008) (ON)
- Define business mission (SM:009) (ON)
- Conduct an organizational SWOT (SM:010) (ON)
- Explain external planning considerations (SM:011, MN LAP 43) (MN)
- Identify and benchmark key performance indicators (e.g., dashboards, scorecards, etc.) (SM:027) (MN)
- Develop action plans (SM:012) (ON)
- Develop business plan (SM:013) (ON)

Performance Element: Control an organization’s/department’s activities to encourage growth and development.

Performance Indicators:
- Describe the nature of managerial control (control process, types of control, what is controlled) (SM:004) (SP)
- Analyze operating results in relation to budget/industry (SM:005) (MN)
- Track performance of business plan (SM:006) (MN)
Instructional Area: Customer Relations

Knowledge and Skill Statement: Understands the techniques and strategies used to foster positive, ongoing relationships with customers

Performance Element: Support sales activities to encourage repeat business.
Performance Indicators:
Process customer orders (CS)
Process customer returns (CS)

Performance Element: Utilize technology to facilitate customer relationship management.
Performance Indicators:
Explain the use of databases in customer relationship management (CS)
Use CRM technology (SP)

Instructional Area: Knowledge Management

Knowledge and Skill Statement: Understands the systems, strategies, and techniques used to collect, organize, analyze, and share information known in an organization

Performance Element: Acquire a foundational understanding of knowledge management to understand its nature and scope.
Performance Indicators:
Explain the nature of knowledge management (SP)
Discuss the role of ethics in knowledge management (SP)
Explain the use of technology in knowledge management (SP)
Explain legal considerations for knowledge management (SP)

Performance Element: Use knowledge management strategies to improve the performance and competitive advantage of an organization.
Performance Indicators:
Identify techniques that can be used to capture and transfer knowledge in an organization (SP)
Determine factors causing loss of organizational knowledge (MN)
Implement knowledge-management strategies (MN)
Instructional Area: Project Management

Knowledge and Skill Statement: Understands tools, techniques, and systems that are used to plan, implement, monitor, and evaluate business projects.

Performance Element: Utilize project management skills to start, run, and end projects.

Performance Indicators:
- Explain the nature of a project life cycle (SP)
- Explain standard project-management processes (SP)
- Coordinate schedules and activities (SP)
- Track project progress and results (SP)

Instructional Area: Quality Management

Knowledge and Skill Statement: Understands the need for standards and the strategies and techniques used to implement, monitor, and evaluate them.

Performance Element: Understand the role and function of quality management to obtain a foundational knowledge of its nature and scope.

Performance Indicators:
- Explain the nature of quality management (SP)
- Describe the nature of quality management frameworks (e.g., Six Sigma, ITIL, CMMI) (SP)
- Discuss the need for continuous improvement of the quality process (SP)

Instructional Area: Risk Management

Knowledge and Skill Statement: Understands risk-management strategies and techniques used to minimize business loss.

Performance Element: Acquire a foundational understanding of risk management to demonstrate knowledge of its nature and scope.

Performance Indicators:
- Explain the role of ethics in risk management (SP)
- Describe the use of technology in risk management (SP)
- Discuss legal considerations affecting risk management (MN)
Administrative Services facilitate business operations through a variety of administrative and clerical duties including information and communication management, data processing and collection, and project tracking. Sample occupations include:

- Administrative Assistant
- Executive Assistant
- Project Coordinator
- Customer Service Representative
- Office Manager

**Instructional Area: Communication Skills**

**Knowledge and Skill Statement:** Understands the concepts, strategies, and systems used in administrative services to obtain and convey ideas and information.

**Performance Element:** Facilitate internal/external office communications to support work activities.

**Performance Indicators:**
- Greet and direct visitors (CS)
- Relay messages (CS)
- Field telephone calls (CS)
- Screen telephone calls (CS)

**Instructional Area: Emotional Intelligence**

**Knowledge and Skill Statement:** Understands techniques, strategies, and systems used in administrative services to foster self-understanding and enhance relationships with others.

**Performance Element:** Apply ethics to demonstrate trustworthiness.

**Performance Indicators:**
- Take responsibility for decisions and actions (PQ)
- Exercise confidentiality (CS)
- Manage commitments in a timely manner (CS)

**Performance Element:** Use communication skills to influence others.

**Performance Indicators:**
- Offer constructive criticism (SU)
Instructional Area: Human Resources Management

Knowledge and Skill Statement: Understands the tools techniques, and systems that administrative service supervisors use to plan, staff, lead, and organize their human resources.

Performance Element: Assist with staff growth and development to increase productivity and employee satisfaction.

Performance Indicators:
Train staff on system usage (SU)

Instructional Area: Information Management

Knowledge and Skill Statement: Understands tools, strategies, and systems administrative service employees need to access, process, maintain, evaluate, and disseminate information to support managers.

Performance Element: Perform scheduling functions to facilitate on-time, prompt completion of work activities.

Performance Indicators:
Create calendar/schedule (CS)
Maintain appointment calendar (CS)
Verify appointments (CS)
Make travel arrangements (SP)
Make meeting arrangements (SP)

Performance Element: Manage business records to maintain needed documentation.

Performance Indicators:
Process customer orders (CS)
Route orders (CS)
File records electronically/manually (CS)
Maintain files(CS)
Collect documentation needed to compile reports (CS)
Track shipping practices (CS)
Set up filing system appropriate for media/documents being stored (SP)
Control incoming/outgoing documentation process (SP)
Develop retention system appropriate for media/documents being stored (SP)
Archive information according to retention procedures (SP)
Audit records periodically (MN)
Performance Element: Prepare documentation of business activities to communicate with internal/external clients.

Performance Indicators:  
Proofread documents (CS)  
Prepare reports (CS)  
Prepare financial data (SP)  
Prepare RFPs (Request for Proposal) (MN)  

Performance Element: Utilize information technology tools to manage and perform work responsibilities.

Performance Indicators:  
Demonstrate advanced web-search skills (SP)  
Demonstrate advanced word-processing skills (SP)  
Demonstrate advanced presentation applications (SP)  
 Demonstrate advanced database applications (SP)  
Mine databases for information (SP)  
Demonstrate advanced spreadsheet applications (SP)  
Create a web page for business applications (SP)  
Capture text using OCR (optical character reader) software (SP)  
Use voice recognition technology to prepare documents (SP)  
Utilize project-management software (SP)  
Utilize imaging software (SP)  

Instructional Area: Operations

Knowledge and Skill Statement: Understands the processes and systems implemented to monitor, plan, and control the day-to-day administrative activities required for continued business functioning

Performance Element: Utilize office equipment to accomplish job assignments.

Performance Indicators:  
Operate calculator (PQ)  
Operate copier (PQ)  
Operate printer (PQ)  
Operate fax machines (PQ)  
Operate postage meter (CS)  
Operate scanner (CS)
Performance Element: Troubleshoot problems with office equipment to make repairs and/or to obtain technical support.

Performance Indicators:
Isolate and identify source of technical problem (CS)
Follow manufacturer’s written procedures to fix technical problem (CS)
Obtain technical support services (CS)

Performance Element: Abide by risk-management policies and procedures for technology to minimize loss.

Performance Indicators:
Adhere to technology safety and security policies (e.g., acceptable use policy, web page policies) (CS)
Apply ergonomic techniques to technology tasks (CS)
Adhere to laws pertaining to computer crime, fraud, and abuse (CS)
Follow procedures used to restart and recover from situations (e.g., system failure, virus infection) (CS)
Follow policies to prevent loss of data integrity (CS)
Adhere to organization’s policies for technology use (CS)

Performance Element: Maintain work flow to enhance productivity.
Performance Indicators:
Organize and prioritize work (CS)
Complete assigned tasks in a timely manner (CS)
Coordinate work with that of team members (CS)
Assist with overflow work (CS)
Coordinate submission of proposals (SP)

Performance Element: Utilize project management skills to start, run, and end projects.
Performance Indicators:
Coordinate schedules and activities (SP)
Plan meetings (SP)

Performance Element: Implement purchasing activities to obtain business supplies, equipment, and services.
Performance Indicators:
Maintain vendor/supplier relationships (SP)
Conduct vendor/supplier search (SP)
Negotiate terms with vendors (SP)
Instructional Area: Professional Development

Knowledge and Skill Statement: Understands concepts, tools, and strategies used to explore, obtain, and develop in an administrative services career

Performance Element: Acquire self-development skills to enhance relationships and improve efficiency in the work environment.

Performance Indicators:
Explain professional responsibilities in administrative services (CS)
Balance personal and professional responsibilities (SP)

Performance Element: Understand and follow company rules and regulations to maintain employment.

Performance Indicators:
Adhere to company policies (CS)
Follow rules of conduct (CS)
Follow chain of command (CS)

Performance Element: Achieve organizational goals to contribute to company growth.

Performance Indicators:
Determine the nature of organizational goals (SP)
Ascertain employee’s role in meeting organizational goals (SP)
Establish performance standards to meet organizational goals (MN)
Monitor progress in achieving organizational goals (MN)

Performance Element: Participate in career planning to enhance job success potential.

Performance Indicators:
Explain career opportunities in administrative services (CS)
Describe certifications in administrative services (CS)
Business Information Management is an umbrella term covering those careers that provide a bridge between business processes/initiatives and IT. Employees in this area help to align business and IT goals. Sample occupations include:

- Business Analyst
- Functional Specialist
- Relationship Manager
- Business Process Manager
- Project Manager

**Instructional Area: Business Law**

**Knowledge and Skill Statement:** Understands business’s responsibility to know, abide by, and enforce laws and regulations that affect business operations and transactions

**Performance Element:** Apply knowledge of business contracts to establish business relationships.

**Performance Indicators:**
- Discuss the nature of contract suspensions (SP)
- Explain the nature of contract terminations (SP)
- Issue a business contract (MN)

**Instructional Area: Financial Analysis**

**Knowledge and Skill Statement:** Understands tools, strategies, and systems used to maintain, monitor, control, and plan the use of financial resources

**Performance Element:** Utilize cost accounting methods to guide business decisions pertaining to quality.

**Performance Indicators:**
- Discuss the implications of quality costs (SP)
- Calculate quality costs (e.g. prevention, appraisal, failure) (MN)

**Performance Element:** Manage risk to protect a business’s well-being.

**Performance Indicators:**
- Explain the impact of risk on business (SP)
- Discuss the nature of credit risk management (MN)
- Discuss reasons to integrate risk management into business operations (MN)
- Discuss the nature of enterprise risk management (ERM) (MN)
- Integrate risk management into business operations (MN)
Performance Element: Implement suitable internal accounting controls to ensure the proper recording of financial transactions.

Performance Indicators:
Explain the purpose of internal accounting controls (SP)
Determine the components of internal accounting control procedures for a business (MN)
Maintain internal accounting controls (MN)

Instructional Area: Information Management

Knowledge and Skill Statement: Understands tools, strategies, and systems needed to access, process, maintain, evaluate, and disseminate information to assist business decision-making

Performance Element: Facilitate computer system operations to enhance usability.
Performance Indicators:
Explain issues involved in designing systems for different environments (SP)
Explain usability engineering methods (SP)
Support and maintain a multimedia website (SP)

Performance Element: Create and access databases to acquire information for business decision-making.
Performance Indicators:
Explain the principles of data analysis (SP)
Explain the nature of tools that can be used to access information in the database system (SP)
Access information in the database system (SP)
Build data in a data warehouse (SP)
Create a meaningful data set (SP)
Manipulate data in the database management system (SP)
Analyze company’s data requirements (SP)
Design a database to meet business requirements (SP)
Identify database trends (SP)

Performance Element: Apply data mining methods to acquire pertinent information for business decision-making.
Performance Indicators:
Discuss the nature of data mining (CS)
Describe data mining tools and techniques (SP)
Discuss the importance of ethics in data mining (SP)
Demonstrate basic data mining techniques (SP)
Interpret data mining findings (SP)
Performance Element: Utilize computer’s operating system to manage and perform work responsibilities.

Performance Indicators:
Move files in the computer operating system (CS)
Create directories (CS)

Performance Element: Utilize technology to support business strategies and operations.
Performance Indicators:
Explain methods used to develop the technological infrastructure (SP)
Identify the management information requirements of an organization (MN)
Discuss the nature of enterprise architecture (MN)
Align technology with business needs (MN)

Instructional Area: Operations

Knowledge and Skill Statement: Understands the processes and systems implemented to monitor, plan, and control the day-to-day activities required for continued business functioning

Performance Element: Utilize project management processes to plan a business project.
Performance Indicators:
Initiate a business project (MN)
Design a business project (MN)

Performance Element: Utilize project management processes to conduct a business project.
Performance Indicators:
Implement a project (MN)
Manage project team (MN)
Monitor a business project (MN)
Minimize a business project’s errors (MN)
Conclude a business project (MN)

Performance Element: Manage purchasing activities to obtain the best service/product for the project at the least cost.
Performance Indicators:
Maintain vendor/supplier relationships (SP)
Negotiate terms with vendors (SP)
Establish bid specifications (MN)
Performance Element: Develop an understanding of business analysis to improve business functions and activities.

Performance Indicators:
Discuss the nature of business analysis (SP)
Discuss the connection between business analysis and business process management (SP)
Explain types of requirements (e.g. business, system, functional, nonfunctional) (SP)

Performance Element: Develop requirements and solutions to improve business processes, performance, or people.

Performance Indicators:
Plan the requirements development process (SP)
Determine requirements stakeholders (SP)
Elicit requirements from stakeholders (SP)
Validate requirements (SP)
Ensure the usability of a proposed solution (SP)

Performance Element: Manage quality-control processes to minimize errors and to improve processes.

Performance Indicators:
Test product/service for quality (SP)
Determine reliability factors impacting the quality of a product/service (MN)
Develop continuous-improvement strategies (MN)
Develop a plan/program for quality achievement (MN)

Instructional Area: Professional Development

Knowledge and Skill Statement: Understands concepts, tools, and strategies used to explore, obtain, and develop in a business information management career

Performance Element: Acquire self-development skills to enhance relationships and improve efficiency in the work environment.

Performance Indicators:
Explain professional responsibilities in business information management (SP)
Discuss the role and responsibilities of project managers (SP)
Describe the role and responsibilities of business analysts (SP)

Performance Element: Participate in career planning to enhance job success potential.
Performance Indicators:
Explain career opportunities in business information management (SP)
Describe certifications in business information management (SP)
Instructional Area: Strategic Management

Knowledge and Skill Statement: Understands tools, techniques, and systems that affect a business’s ability to plan, control, and organize an organization/department

Performance Element: Coordinate information management and business management to aid in business planning.

Performance Indicators:
- Explain the strategic role of information systems/information communication technology within an organization (SP)
- Determine risks and rewards of developing a strategic role for information systems/information communication technology (MN)
- Integrate information systems planning with business planning (MN)
General Management focuses on careers that plan, organize, direct, and evaluate all or part of a business organization through the allocation and use of financial, human, and material resources. Sample occupations include:

- Director
- Regional Manager
- Store Manager
- District Manager
- Small Business Manager
- Supervisor

### Instructional Area: Business Law

**Knowledge and Skill Statement:** Understands business’s responsibility to know, abide by, and enforce laws and regulations that affect business operations and transactions.

**Performance Element:** Adhere to regulations for business expansion to meet government requirements and industry standards.

**Performance Indicators:**
- Follow domestic laws governing business expansion (MN)
- Follow laws governing global expansion (MN)

**Performance Element:** Understand government/legal activities that affect global trade to make business decisions.

**Performance Indicators:**
- Describe customs regulations (SP)
- Comply with export licensing regulations (MN)
- Obtain releases and clearances to export products (MN)
- Explain the nature of legal recourse in resolving global business disputes (MN)

### Instructional Area: Communication Skills

**Knowledge and Skill Statement:** Understands the concepts, strategies, and systems used by management to obtain and convey ideas and information.

**Performance Element:** Write internal and external business correspondence to convey and obtain information effectively.

**Performance Indicators:**
- Write analytical reports (i.e., reports that examine a problem/issue and recommend an action) (SP)
- Write research reports (SP)
Instructional Area: Economics

Knowledge and Skill Statement: Understands the economic principles and concepts fundamental to business operations

Performance Element: Recognize global trade’s impact on business activities to guide business decision-making.

Performance Indicators:
Discuss the impact of globalization on business (SP)
Explain cultural considerations that impact global business relations (SP)
Describe the impact of electronic communication tools (e.g., Internet, video- and computer-conferencing, webcasts, email) on global business activities (SP)
Explain the impact of major trade alliances on business activities (SP)
Describe the impact of the political environment on world trade (SP)
Explain the impact of geography on world trade (SP)
Describe the impact of a country’s history on world trade (SP)
Explain the impact of a country’s economic development on world trade (SP)
Discuss the potential impact of emerging economies on business activities (MN)

Instructional Area: Emotional Intelligence

Knowledge and Skill Statement: Understands techniques, strategies, and systems used by management to foster self-understanding and enhance relationships with others

Performance Element: Apply ethics to demonstrate trustworthiness to staff.

Performance Indicators:
Use ethics in staff supervision (SU)
Explain the nature of managerial ethics (MN)

Performance Element: Manage internal and external business relationships to foster positive interactions.

Performance Indicators:
Explain the impact of business customs and practices on global trade (SP)
Describe the nature of business customs and practices in the North American market (SP)
Explain the nature of business customs and practices in Europe (SP)
Explain the nature of business customs and practices in Latin America (SP)
Describe the nature of business customs and practices in the Pacific Rim (SP)
Discuss the nature of business customs and practices in the Middle East (SP)
Instructional Area: Financial Analysis

Knowledge and Skill Statement: Understands tools, strategies, and systems managers use to maintain, monitor, control, and plan the use of financial resources

Performance Element: Manage business risks to protect a business’s financial well-being.

Performance Indicators:
- Identify a business’s risks (MN)
- Assess business risks (MN)
- Assess task risks (MN)
- Assess accounting risks (MN)
- Assess legal risks (MN)
- Evaluate speculative business risks (MN)
- Assess business’s potential to expand into new markets (MN)
- Select risk-management strategies (MN)
- Develop risk-management plan (MN)
- Evaluate risk-management plan (MN)

Performance Element: Manage financial resources to ensure solvency.

Performance Indicators:
- Interpret cash-flow statements (MN)
- Monitor business’s profitability (MN)

Instructional Area: Operations

Knowledge and Skill Statement: Understands the processes and systems that managers implement to monitor, plan, and control the day-to-day business activities required for continued business functioning

Performance Element: Manage purchasing activities to obtain the best service/product at the least cost.

Performance Indicators:
- Maintain vendor/supplier relationships (SP)
- Negotiate terms with vendors (SP)
- Establish bid specifications (MN)
Performance Element: Manage quality-control processes to minimize errors and to expedite workflow.

Performance Indicators:
- Explain the nature of quality management (SP)
- Discuss the need for continuous improvement of the quality process (SP)
- Develop continuous-improvement strategies (MN)
- Develop a plan/program for quality achievement (MN)

Instructional Area: Professional Development

Knowledge and Skill Statement: Understands concepts, tools, and strategies used to explore, obtain, and develop in a management career.

Performance Element: Explore professional development opportunities to enhance management skills.

Performance Indicators:
- Identify continuing education courses or programs available to enhance management skills (SP)
- Describe certifications for management professionals (e.g., American Management Association [AMA], American National Standards Institute [ANSI]) (SP)
- Identify professional association opportunities for management professionals (e.g., educational opportunities, networking, conferences, newsletters, publications) (SP)

Performance Element: Adhere to a professional code of ethics to guide business decisions.

Performance Indicators:
- Discuss factors to consider in developing a managerial code of ethics (MN)
- Utilize an established professional code of ethics (MN)

Instructional Area: Strategic Management

Knowledge and Skill Statement: Understands tools, techniques, and systems that affect a manager’s ability to plan, control, and organize

Performance Element: Recognize management’s role to understand its contribution to business success.

Performance Indicators:
- Describe factors that influence management (MN)
- Discuss the nature of global management (MN)
- Explain management theories and their applications (MN)
Performance Element: Plan organization’s/department’s activities to guide and support decision-making and to ensure that staff focuses on the right priorities.

Performance Indicators:
Describe the strategic planning process within an organization (MN)
Identify and set benchmarks for key performance indicators (MN)
Develop strategies for achieving company vision (MN)
Determine alternative actions to take when goals are not being met (MN)
Evaluate opportunities for potential company changes (MN)
Develop processes that can be used to improve business results (MN)
Analyze exit plan options (ON)
Develop company vision (ON)
Determine business’s overall global strategy (ON)
Develop company’s management plan (ON)

Performance Element: Design organizational structure to facilitate business activities.
Performance Indicators:
Describe organizational structures for managing foreign business activities (MN)
Develop an organizational plan for human resources (MN)
Develop an organizational strategy for foreign businesses (MN)

Performance Element: Determine staffing needs to minimize costs while maximizing business contribution.
Performance Indicators:
Describe the nature of human-resources planning (SU)
Explain approaches to the identification of human resources in foreign markets (SU)
Determine causes of staff turnover (MN)

Performance Element: Control organization’s/department’s activities to monitor business activities and to make business decisions.
Performance Indicators:
Discuss the importance of the coordinating/controlling role in the business environment (MN)
Evaluate individual department’s contribution to organizational effectiveness (MN)
Apply benchmarking techniques (MN)
Interpret internal information for strategic planning (e.g., financial/accounting, marketing, operations, human resources, information technology, and individual employee data) (MN)
Assess company’s strategic-planning processes (MN)
Human Resources Management focuses on the staffing activities that involve planning, recruitment, selection, orientation, training, performance appraisal, compensation, and safety of employees. Sample occupations include:

- Benefits Administrator
- HR Generalist
- Labor Relations Manager
- Training Manager
- Compensation Analyst
- HR Manager
- Recruiter

**Instructional Area: Business Law**

**Knowledge and Skill Statement:** Understands business’s responsibility to know, abide by, and enforce laws and regulations that affect business operations and transactions

**Performance Element:** Implement human-resources laws and regulations to ensure equitable treatment of employees and to meet government requirements.

**Performance Indicators:**
- Explain unfair labor practices (SP)
- Comply with compensation and benefit laws (SP)
- Determine human resources management’s legal responsibility in maintaining labor relations (MN)
- Participate in collective-bargaining process (MN)

**Instructional Area: Communication Skills**

**Knowledge and Skill Statement:** Understands the concepts, strategies, and systems used by management to obtain and convey ideas and information

**Performance Element:** Communicate with staff to clarify workplace expectations and benefits.

**Performance Indicators:**
- Maintain confidentiality in dealing with personnel (SP)
- Describe elements of a human resources management’s communications program (SP)
- Communicate diversity strategies (MN)
- Communicate compensation and benefits plan and policies to workforce (MN)
Instructional Area: Emotional Intelligence

Knowledge and Skill Statement: Understands techniques, strategies, and systems used by human resources management to foster self-understanding and enhance relationships with others.

Performance Element: Use communication skills to influence others.
Performance Indicators:
Negotiate benefit plan administration and improvements (e.g., reduced costs, better benefits) with carriers (MN)

Performance Element: Manage internal and external business relationships to influence organizational decision-making.
Performance Indicators:
Establish strategic relationships with individuals/teams in the business (MN)
Establish alliances with key individuals and groups to share best-practices (MN)

Instructional Area: Financial Analysis

Knowledge and Skill Statement: Understands tools, strategies, and systems managers use to maintain, monitor, control, and plan the use of financial resources.

Performance Element: Manage financial resources to maintain and evaluate human-resources expenses.
Performance Indicators:
Prepare and maintain human-resources development budget (MN)
Evaluate cost of a human-resources development program (MN)

Instructional Area: Human Resources Management

Knowledge and Skill Statement: Understands the tools techniques, and systems that businesses use to plan, staff, lead, and organize its human resources.

Performance Element: Understand human resources management models to demonstrate knowledge of their nature and scope.
Performance Indicators:
Explain human resources management functions (SP)
Describe phases of human resources management (SP)
Discuss factors that impact human resources management (e.g., availability of qualified employees, alternative staffing methods, employment laws/regulations, company policies/procedures, compensation and benefit programs, staff diversity, etc.)(SP)
Performance Element: Plan talent-acquisition activities to guide human resources management decision-making.

Performance Indicators:
Describe planning techniques used in the hiring process (e.g., succession planning, forecasting, etc.) (SP)
Evaluate the use of alternative staffing methods (e.g., outsourcing, telecommuting, etc.) (MN)
Assess availability of qualified applicants (MN)
Classify jobs (MN)
Establish employee-selection procedures (MN)
Develop strategies to market the organization to potential employees (MN)
Develop a staffing plan (MN)

Performance Element: Implement talent-acquisition activities to obtain qualified staff.
Performance Indicators:
Administer and interpret employee selection tests (SP)
Assess employees’ potential for growth and development in the organization (MN)
Make job offer (MN)
Explain contingency factors affecting job offer (e.g., background checks, drug tests, physical results, etc.) (MN)
Evaluate the effectiveness of recruitment sources (MN)

Performance Element: Control talent-acquisition activities to improve efficiencies of human resources selection.
Performance Indicators:
Use staffing metrics to assess effectiveness of hiring decisions (e.g., cost benefit analysis, costs-per-hire, selection ratios, adverse impact, etc.) (MN)
Develop hiring policies and procedures (MN)

Performance Element: Conduct on-boarding activities to facilitate employee start-up.
Performance Indicators:
Perform post-employment offer activities (SP)
Explain the use of employment contracts (SP)
Explain standard relocation practices (SP)
Assist with employee relocation (SP)
Describe expatriation and repatriation issues and practices (SP)
Evaluate effectiveness of new-employee orientation (MN)
Assess effectiveness of training (MN)
Performance Element: Determine employee-development needs to foster staff’s growth and professional development.

Performance Indicators:
- Assess employee skills (SP)
- Conduct task/process analysis (SP)
- Assess company’s learning needs (SP)

Performance Element: Administer human-resources development activities.

Performance Indicators:
- Write training activities (SP)
- Select subject-matter experts for employee-development activities (SP)
- Conduct gap and/or needs analysis to identify human-resources development needs (SP)
- Determine issues impacting human-resources development (e.g., organizational culture and policies, societal norms, etc.) (SP)
- Apply human-resources development theories (SP)
- Implement employee-development program (SP)
- Develop training program (MN)
- Assess human-resources development program effectiveness (MN)

Performance Element: Control human resources management activities to maintain workforce standards.

Performance Indicators:
- Assist with establishment of work rules (SP)
- Implement informal performance appraisals (MN)
- Assist supervisors with performance appraisal tools (MN)
- Develop written performance-management procedures (MN)
- Develop human-resources policy/procedure manual (MN)

Performance Element: Build employer-employee relationships to foster productivity.

Performance Indicators:
- Describe ways that businesses build positive employer-employee relationships (SP)
- Assess effectiveness of employee-relations activities (SP)
- Develop employee-relations programs (MN)
Performance Element: Resolve staff issues/problems to enhance productivity and improve employee relationships.

Performance Indicators:
- Explain labor-relations issues (SP)
- Describe out-placement procedures and activities used in layoffs (SP)
- Document employee issues (MN)
- Discipline employees (MN)
- Participate in dispute resolution (MN)
- Determine the strategic importance of employee exit (MN)
- Adhere to employment-at-will regulations (MN)
- Release staff due to layoffs (MN)

Performance Element: Select compensation system to match management’s goals and attract employees.

Performance Indicators:
- Explain payroll functions (SP)
- Select a payroll system (MN)
- Explain the components of a compensation system (SP)
- Determine components of compensation system (MN)
- Discuss the nature of executive compensation (MN)
- Identify pay structures (MN)
- Determine pay grade of job (MN)

Performance Element: Analyze compensation functions to meet employee expectations and to remain competitive with other employers.

Performance Indicators:
- Identify emerging compensation issues (SP)
- Analyze pay rates (MN)
- Evaluate compensation policies and procedures (MN)

Performance Element: Identify employee benefit options to attract and keep qualified employees.

Performance Indicators:
- Explain the nature of benefit plans (e.g., health insurance, life insurance, retirement plans, educational assistance, health club, etc.) (SP)
- Explain the nature of retirement plans (SP)
Performance Element: Select benefit options to offer employees.

Performance Indicators:
Conduct benefits need assessment (SP)
Design a retirement plan (MN)
Establish a benefits plan (MN)

Performance Element: Analyze benefit plans to maximize employee satisfaction while minimizing human-resources costs.

Performance Indicators:
Explain methods that can be used to analyze benefit plans (MN)
Evaluate benefits plan (MN)

Performance Element: Select and analyze employee fitness and wellness program to facilitate employee well-being.

Performance Indicators:
Explain types of fitness/wellness programs offered by businesses (SP)
Assess company’s employee fitness/wellness program (SP)

Performance Element: Develop and assess company’s health and safety programs to ensure compliance and protect employees.

Performance Indicators:
Implement workplace injury/occupational illness procedures (SP)
Evaluate effectiveness of company’s injury/occupational illness prevention programs (SP)
Set up company’s injury/occupational illness prevention programs (MN)

Performance Element: Contribute to organizational development to change the beliefs, attitudes, values, and structure of organizations so that they can better adapt to new technologies, markets, and challenges.

Performance Indicators:
Explain the nature of organizational development (SP)
Apply organizational-development theories (MN)
Evaluate human resources management’s contribution to organizational effectiveness (MN)
Instructional Area: Information Management

Knowledge and Skill Statement: Understands tools, strategies, and systems human resources management needs to access, process, maintain, evaluate, and disseminate information to support managers

Performance Element: Utilize a human resource information system to increase organizational efficiency.

Performance Indicators:
- Explain the nature of a human resource information system (HRIS) (SP)
- Capture and store data in a human resource information system (HRIS) (SP)
- Mine data in human resource information system (SP)
- Identify trends in human resource information systems (HRIS) (MN)
- Institute policies/procedures to protect the privacy of human-resources information (MN)

Instructional Area: Marketing

Knowledge and Skill Statement: Understands the tools, techniques, and systems that businesses use to create, communicate, and deliver value to customers and to manage customer relationships in ways that benefit the organization and its stakeholders

Performance Element: Understand company’s unique selling proposition to recognize what sets the company apart from its competitors.

Performance Indicators:
- Develop strategies to market the organization to potential employees (MN)
Instructional Area: Operations

Knowledge and Skill Statement: Understands the processes and systems that human resources management implements to monitor, plan, and control the day-to-day business activities required for continued business functioning.

Performance Element: Understand health and safety issues to support a safe work environment.

Performance Indicators:
- Describe general health and safety practices monitored and assessed by human resources management (SP)
- Discuss the nature of incident and emergency response plans (SP)
- Describe the nature of employee-assistance programs (SP)
- Explain the nature of employee fitness/wellness programs (SP)
- Discuss human resources management issues resulting from employee’s drug use and dependency (SP)

Performance Element: Troubleshoot health and safety problems to foster a safe work environment.

Performance Indicators:
- Identify potential workplace violence conditions (SP)
- Protect business’s security when terminating employees (MN)
- Implement workplace injury/occupational illness procedures (e.g., worker’s compensation, OSHA) (MN)
- Ensure compliance with all applicable workplace health and safety laws and regulations (MN)
- Facilitate investigation procedures of workplace safety, health, and security enforcement agencies (MN)
Performance Element: Develop and analyze human-resources programs, practices, and services that promote the physical and mental well-being of individuals in the workplace to protect individuals and the workplace.

Performance Indicators:
Recommend an emergency response and business recovery plan (SP)
Recommend an incidence response plan (SP)
Evaluate incident and emergency response plans (e.g., natural disasters, workplace safety threats, evacuations, etc.)
Recommend a security plan for a business (SP)
Evaluate security plans to protect the company from liability (MN)
Develop/select injury/occupational illness prevention programs (MN)
Develop/select safety training and incentive programs (MN)
Set up an employee-assistance program (MN)
Assess employee-wellness programs (MN)
Evaluate effectiveness of safety training and incentive programs (MN)

Instructional Area: Professional Development

Knowledge and Skill Statement: Understands concepts, tools, and strategies used to explore, obtain, and develop in a human resources management career.

Performance Element: Participate in career planning to enhance job success potential.
Performance Indicators:
Explain career opportunities in human resources management (SP)
Describe certifications for human resources-management professionals (e.g., Professional in Human Resources [PHR], Senior Professional in Human Resources [SPHR], Global Professional in Human Resources [GPHR], etc.) (SP)

Performance Element: Explore professional development opportunities to enhance skills needed in human resources management.
Performance Indicators:
Identify continuing education courses or programs available to enhance human resources management skills (SP)
Identify professional association opportunities for human resources management professionals (e.g., educational opportunities, networking, conferences, newsletters, publications) (SP)
Utilize human resources publications (e.g., books, periodicals, newsletters) to update human-resources skills (SP)
Instructional Area: Strategic Management

Knowledge and Skill Statement: Understands tools, techniques, and systems that affect human resources management’s ability to plan, control, and organize


Performance Indicators:
- Explain how human resources management participates in a company’s strategic planning process (SP)
- Determine the strategic importance of organizational exit (MN)
- Develop organizational change-management program (MN)
- Facilitate activities to enable strategic management process implementation (MN)
- Evaluate human resources management’s contribution to organizational effectiveness (MN)

Performance Element: Evaluate organization’s strategic planning and policy-making processes to guide decision-making.

Performance Indicators:
- Apply environmental scanning techniques to assess strategic-planning processes (MN)
- Apply results of environmental scan to business goals/objectives (MN)
- Evaluate organizational change-management program (MN)
Operations Management focuses on planning, organizing, coordinating, and controlling the resources needed to produce/provide a business’s goods and/or services. Examples of activities in Operations Management are quality control, scheduling, procurement, and warehousing. Sample occupations include:

Chief Operations Officer  Master Scheduler  
Procurement Analyst  Purchasing Manager  
Quality Manager  Supply Chain Manager

**Instructional Area: Business Law**

**Knowledge and Skill Statement:** Understands business’s responsibility to know, abide by, and enforce laws and regulations that affect business operations and transactions

**Performance Element:** Apply knowledge of business contracts to establish business relationships.

**Performance Indicators:**
- Discuss the nature of contract suspensions (SP)
- Explain the nature of contract terminations (SP)
- Issue a service/goods contract (MN)

**Performance Element:** Understand laws regulating the vendor/supplier bidding process to facilitate business operations.

**Performance Indicators:**
- Discuss regulations that affect the vendor/supplier bidding process (SP)

**Instructional Area: Customer Relations**

**Knowledge and Skill Statement:** Understands the techniques and strategies used to foster positive, ongoing relationships with customers

**Performance Element:** Foster positive relationships with customers to enhance sales.

**Performance Indicators:**
- Explain the relationship between customer services and sales (CS)
- Process customer orders (CS)
- Process returns (CS)
Instructional Area: Financial Analysis

Knowledge and Skill Statement: Understands tools, strategies, and systems used to maintain, monitor, control, and plan the use of financial resources.

Performance Element: Utilize cost accounting methods to guide business decision-making.

Performance Indicators:
Discuss the relationship between operations management and accounting (SP)
Describe the nature of cost accounting decision making (SP)
Explain the nature of job costing (SP)
Describe the nature of activity-based costing (SP)
Discuss the implications of quality costs (SP)
Perform job costing (MN)
Calculate quality costs (e.g. prevention, appraisal, failure) (MN)
Conduct cost/benefit analysis on planned acquisitions (MN)

Performance Element: Manage risk to protect a business’s wellbeing.

Performance Indicators:
Discuss the nature of credit risk management (MN)
Discuss reasons to integrate risk management into business operations (MN)
Discuss the nature of enterprise risk management (ERM) (MN)
Integrate risk management into business operations (MN)

Performance Element: Implement suitable internal accounting controls to ensure the proper recording of financial transactions.

Performance Indicators:
Explain the purpose of internal accounting controls (SP)
Determine the components of internal accounting control procedures for a business (MN)
Maintain internal accounting controls (MN)
**Instructional Area: Information Management**

**Knowledge and Skill Statement:** Understands tools, strategies, and systems needed to access, process, maintain, evaluate, and disseminate information to assist operations management decision-making

**Performance Element:** Explain the role of technology to process and track customer orders.

**Performance Indicators:**
- Describe the impact of technology on order processing (CS)
- Explain the nature of universal product code (UPC) barcoding (SP)
- Explain the nature of radio frequency identification (RFID) tags (SP)

**Instructional Area: Operations**

**Knowledge and Skill Statement:** Understands the processes and systems that operations managers implement to monitor, plan, and control the day-to-day business activities required for continued business functioning

**Performance Element:** Understand purchasing activities to obtain business materials and services.

**Performance Indicators:**
- Describe the role of solicitations used in the purchasing process (SP)
- Discuss the impact of vendor competition on purchasing (SP)
- Discuss the importance of utilizing ethical purchasing methods (SP)
- Explain the impact of the purchasing process on productivity (SP)
- Discuss the nature of purchasing methods (SP)
- Describe business objectives/strategies that influence purchasing (SP)

**Performance Element:** Acquire knowledge of organizational requirements to properly handle purchase requisitions.

**Performance Indicators:**
- Describe types of purchase orders (CS)
- Discuss organizational requirements for purchase requisitions (SP)
- Discuss priority procedures used by businesses for purchases (SP)
- Explain budgetary procedures for purchase requisitions (MN)
Performance Element: Manage purchasing activities to obtain the best service/product at the least cost.

Performance Indicators:
- Maintain vendor/supplier relationships (SP)
- Develop lists of sources (e.g. approved, preferred, partnered, certified, disqualified) (SP)
- Conduct vendor/supplier search (SP)
- Negotiate terms with vendors (SP)
- Establish bid specifications (MN)

Performance Element: Understand inventory control and management methods to maintain appropriate levels of stock/supplies.

Performance Indicators:
- Discuss types of inventory (CS)
- Explain methods of inventory control (SP)
- Discuss stockless purchasing and inventory systems (SP)
- Describe the process of supplier-managed inventory (SP)

Performance Element: Plan the production of a product/service to facilitate business operations.

Performance Indicators:
- Explain the factors impacting a master production schedule (MN)
- Create a master production schedule (MN)
- Evaluate the effectiveness and efficiency of a production schedule (MN)

Performance Element: Manage quality-control processes to minimize errors and to expedite workflow.

Performance Indicators:
- Explain the nature of quality management (SP)
- Determine reliability factors impacting the quality of a product/service (SP)
- Test product/services for quality (SP)
- Discuss the need for continuous improvement of the quality process (SP)
- Develop continuous-improvement strategies (MN)
- Develop a plan/program for quality achievement (MN)
Performance Element: Conduct supply chain management activities to coordinate the movement of materials, information, and funds into an organization and the movement of finished products/services out of an organization.

Performance Indicators:
- Explain the nature of order cycle time (SP)
- Explain types of supply chain activities (SP)
- Describe the nature of inter-organizational supply chains (SP)
- Discuss organizational dependence on effective supply chains (SP)
- Discuss the nature of supply chain management (SP)
- Describe the relationship between supply chain management and logistics (SP)
- Describe types of supply-chain management decisions (e.g., location, production, inventory, transportation) (MN)
- Implement supply chain management strategies (MN)

Performance Element: Evaluate knowledge management strategies to improve the performance and competitive advantage of the organization.

Performance Indicators:
- Explain the role of organizational culture in knowledge management implementation (MN)
- Assess knowledge-management strategies (MN)

Performance Element: Manage innovation to gain competitive advantage in the marketplace.

Performance Indicators:
- Discuss the nature of product-development management (SP)
- Explain ways to align product-development plans with business strategy (MN)
- Describe methods for recognizing opportunities for innovation (MN)
- Implement product-development management strategies (MN)

Performance Element: Adjust the work capacity of an organization to meet predicted demands.

Performance Indicators:
- Discuss the nature of capacity planning (SP)
- Describe factors impacting demand (SP)
- Explain types of capacity planning (e.g., lead strategy, lag strategy, match strategy) (MN)
- Plan work capacity (MN)
Instructional Area: Professional Development

Knowledge and Skill Statement: Understands concepts, tools, and strategies used to explore, obtain, and develop in an operations management career

Performance Element: Understand and follow company rules and regulations to maintain employment.
Performance Indicators:
Adhere to company protocols and policies (CS)

Performance Element: Participate in career planning to enhance job success potential.
Performance Indicators:
Explain career opportunities in operations management (SP)
Describe certifications for operations-management professionals (SP)

Performance Element: Explore professional development opportunities to enhance operations-management skills.
Performance Indicators:
Identify continuing education courses or programs available to enhance operations-management skills (SP)
Identify professional association opportunities for operations-management professionals (e.g., educational opportunities, networking, conferences, newsletters, publications) (SP)
Utilize operations-management publications (e.g., books, periodicals, newsletters) to update skills (SP)
Appendix A
Bibliography
Bibliography

BUSINESS MANAGEMENT AND ADMINISTRATION CLUSTER, GENERAL

Labor Statistics/Government Websites


U.S. Department of Labor, Career Voyages [www.careervoyages.gov](http://www.careervoyages.gov)


The Ohio Department of Job and Family Services, *Occupational Trends: What’s Hot in Ohio, Job Outlook to 2012*. [www.ohioworkforceinform.org](http://www.ohioworkforceinform.org)

The Ohio Department of Job and Family Services, Bureau of Labor Market Information/Office of Workforce Development, *Ohio Job Outlook to 2012*.


Books


Articles


ADMINISTRATIVE SERVICES


International Association of Administrative Professionals http://www.iaap-hq.org/index.htm

International Virtual Assistants Association http://www.ivaa.org/index.php

ProfessioNotes: A Newsletter of the Institute of Certified Records Managers (Winter 2006).

Virtual Assistant http://www.assistu.com/

Articles

Lee, M. (December 1, 2000). *Virtual personal assistants can be a real help*. Austin Business Journal.
Moncarz, R. (Winter 2005). *Job outlook for people who don’t have a bachelor’s degree.* Occupational Outlook Quarterly

**Certifications**

Certified Professional Secretary (CPS), Certified Administrative Professional (CAP)
http://iaap-hq.org/cert/faq.htm

Certified Records Manager (CRM)
www.ICRM.org

**BUSINESS INFORMATION MANAGEMENT**

**Universities with Business Information Technology Tracks**

University of Pennsylvania, Wharton School of Business, Jerome Fisher Program in Management & Technology
http://www.mandt.wharton.upenn.edu/about.htm

Virginia Tech, Pamplin College of Business, Department of Business Information Technology
http://www.bit.vt.edu/

University of Michigan, Ross School of Business, Department of Business Technology
http://www.bus.umich.edu/Academics/Departments/CIS/

MIT Sloan School of Management
http://mitsloan.mit.edu/undergrad/ac-main.php

Carnegie Mellon, Tepper School of Business, Technology Leadership Track
http://business.tepper.cmu.edu/default.aspx?id=143376

University of California, Berkeley, Haas School of Business, Fisher Center for the Strategic Use of Information Technology
http://groups.haas.berkeley.edu/fcsuit

University of Maryland, Robert H. Smith School of Business, Information Systems, Specialization Business
http://www.rhsmith.umd.edu/undergrad/is.html

Arizona State University, W.P. Carey School of Business, Center for Advancing Business through Information Technology
http://wpcarey.asu.edu/seid/cabit/index.cfm
Bibliography

Business Information Management, General

CIO Magazine Online
www.cio.com

Chief Executive Magazine Online
CEOs and Technology Section
http://www.chiefexecutive.net/ME2/Audiences/Default.asp


Articles


Books


Standards


Project Management


Nerdherding for Beginners (Blog) http://www.nerdherding.net/

Project Management Institute http://www.pmi.org/info/default.asp


Project Management Institute (PMI®) and Corpedia Education Web-based Courseware http://www.corpedia.com/welcome/product.asp?partnerID=85&refererID=pmi&product=S100

Wideman Comparative Glossary of Project Management Terms  

Wikipedia  
http://en.wikipedia.org/wiki/Project_management


Zielinski, D. (2005, July). *Soft skills, hard truths: How the project-management discipline is rediscovering the power and importance of old-fashioned people skills* in *Training Magazine*.

**Business Analysis**

International Institute of Business Analysis  
http://www.iiba.com/default.cfm

iRise (Business Analyst Resources)  
http://www.irise.com/resources/ba_resources.shtml#rm

**GENERAL MANAGEMENT**

American Management Association  
http://www.amanet.org/index.htm

Association of Professionals in Business Management  
http://www.apbm.org/pages.aspx/cabmcontent


HUMAN RESOURCES MANAGEMENT

American Payroll Association
www.americanpayroll.org/contents.html

American Society for Healthcare Human Resources Administration
www.ashhra.org

American Society for Training and Development
www.astd.org

HR Magazine
www.shrm.org/hrmagazine

The International Association for Human Resource Information Management
www.ihrim.org

International Foundation of Employee Benefit Plans
www.ifebp.org/default.asp

monster.com: Human Resources Careers Message Board

Personnel Today
www.personneltoday.com

Society for Human Relations Management
www.shrm.org

WetFeet: Human Resources
www.wetfeet.com/Content?Careers/Human%20Resources.aspx

Books


Articles


HR skills for the future. February 2006. HR Magazine
OPERATIONS MANAGEMENT


Appendix B
Listing of Participants
Ida Abdalkhani  
Assistant Brand Manager  
Procter and Gamble  
Cincinnati, OH

Bill Kistner  
President  
Bill Kistner and Co. LLC  
Lewis Center, OH

Clare E. Adkin, Jr.  
Consultant  
NC Council on Economic Education  
Durham, NC

Megan Knox  
Manager, Marketing and Communications  
Siemens Airfield Solutions, Inc.  
Columbus, OH

Nima Alahmad  
General Manager  
Finish Line  
Indianapolis, IN

Maureen Kohler  
Art Serve  
Ft. Lauderdale, FL

Eileen Alberts  
Albert's Plumbing and Heating  
Danbury, CT

Sonja K. Kondas  
Branch Office Manager  
Peck Shaffer  
Columbus, OH

Joan Alford  
NC Film Office  
Raleigh, NC

Jody L. Koonce  
Individual Consultant  
TIAA-CREF  
Mint Hill, NC

Ryan Allen  
Corporate Account Executive  
Nextel Communications  
Indianapolis, IN

Patti Korth  
Park Bank Support Center  
Madison, WI

Thomas L. Allen  
Vice President of Marketing  
Skyline Chili, Inc.  
Fairfield, OH

Stephanie Koval  
Executive Assistant  
Nationwide  
Columbus, OH

Chreatha Alston-Woods  
Century 21 Fourstar Realty  
Cary, NC

Kevin Kowalick  
Ft. Lauderdale Convention Center  
Ft. Lauderdale, FL

Ivan Alvarez  
Director, Strategy and Architecture  
NCR Corporation  
Dayton, OH

Chris Kramer  
Finish Line  
Reynoldsburg, OH

Samuel Ambrose  
Director, Major National Accounts  
U.S. Imaging Solutions  
Davie, FL

Doug Kramer  
Vice President, Finance  
Elmer's Products, Inc.  
Columbus, OH
<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Position</th>
<th>Company/Institution</th>
<th>Location</th>
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<tr>
<td>Mike Anania</td>
<td>Agent/Broker</td>
<td>MetLife Insurance</td>
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<tr>
<td>George Krempley</td>
<td>President</td>
<td>Ohio Bar Liability Insurance Co.</td>
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<td>Paul Anderson</td>
<td>Partner/Director of Assurance</td>
<td>GBQ Partners, LLC</td>
<td>Columbus, OH</td>
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<td>Sandy Krysiak</td>
<td>Human Resources Consultant</td>
<td>National Grid</td>
<td>Cleveland, OH</td>
</tr>
<tr>
<td>Mike Anderson</td>
<td>Senior Manager, Marketing Research, Business Trends, Data Mktg, The Longaberger Co.</td>
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<td>Sue Lake</td>
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<td>Lori Angel</td>
<td></td>
<td>Olmsted Falls High School</td>
<td>Olmsted Falls, OH</td>
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<tr>
<td>Chris Lambrecht</td>
<td>President</td>
<td>Intelligent Marketing Solutions</td>
<td>Atlanta, GA</td>
</tr>
<tr>
<td>Brian Asbill</td>
<td>General Manager</td>
<td>Wolfpack Sports Marketing</td>
<td>Raleigh, NC</td>
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<tr>
<td>Shannon Landen</td>
<td></td>
<td>Corp. Internet and eMarketing Manager</td>
<td>Raleigh, NC</td>
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<tr>
<td>Steffanie Attenberg</td>
<td>Associate Advertising Director</td>
<td>South Florida Business Journal</td>
<td>Deerfield Beach, FL</td>
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<tr>
<td>Sheryl Lauer</td>
<td>Executive Assistant to the President and CEO</td>
<td>National Church Residences</td>
<td>Columbus, OH</td>
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<tr>
<td>Mary Auch</td>
<td>Vice President, Corporate Banking, Relationship Manager</td>
<td>National City Bank - Columbus</td>
<td>Columbus, OH</td>
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<td>Debra Laughlin</td>
<td></td>
<td>Centerville High School</td>
<td>Centerville, OH</td>
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<td>Allen M. Bacher</td>
<td>Managing Partner</td>
<td>ABEI</td>
<td>O'Fallon, MO</td>
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<tr>
<td>John Lavkulich</td>
<td>Adjunct Faculty</td>
<td>Columbus State Community College</td>
<td>Hilliard, OH</td>
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<tr>
<td>JoLynn Bahr</td>
<td>Administrative Officer</td>
<td>IU Department of Medical Genetics</td>
<td>Indianapolis, IN</td>
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<tr>
<td>Lara Lebeiko</td>
<td></td>
<td>Communications and Research</td>
<td>Columbus, OH</td>
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<tr>
<td>Amy Baker</td>
<td>Director of Sales</td>
<td>Wolfpack Sports Marketing</td>
<td>Raleigh, NC</td>
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<tr>
<td>Kevin Lehr</td>
<td>President</td>
<td>Kevin Lehr and Associates</td>
<td>Columbus, OH</td>
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### Listing of Participants

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<tr>
<th>Name</th>
<th>Title and Organization</th>
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<tr>
<td>David Baker</td>
<td>President</td>
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<td>Mike Baker</td>
<td>President/Manager</td>
<td>Okeana, OH</td>
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<td>David Baldwin</td>
<td>President</td>
<td>Lexington, OH</td>
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<td>Dan Bankey</td>
<td>Human Resources</td>
<td>Omaha, NE</td>
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<tr>
<td>Scott Barbee, CFP</td>
<td>Wealth Advisor</td>
<td>Cincinnati, OH</td>
</tr>
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<td>Reuel Barksdale</td>
<td>Columbus State Community College</td>
<td>Columbus, OH</td>
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<td>Bob Barnes</td>
<td>Vice President</td>
<td>Columbus, OH</td>
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<tr>
<td>Joe Barrows</td>
<td>Principal</td>
<td>Lancaster, OH</td>
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<tr>
<td>Jim Barstow</td>
<td>Certified Public Accountant</td>
<td>Worthington, OH</td>
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<tr>
<td>Jeff Bauer</td>
<td>Associate Professor, Marketing and Management</td>
<td>Batavia, OH</td>
</tr>
<tr>
<td>Jeff Becker</td>
<td>Kotis Design</td>
<td>Seattle, WA</td>
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<tr>
<td>Melody Leidheiser</td>
<td>Project Management Consultant</td>
<td>Columbus, OH</td>
</tr>
<tr>
<td>Dawn Lemley</td>
<td>Treasurer</td>
<td>Groveport, OH</td>
</tr>
<tr>
<td>Joe Leonetti</td>
<td>Vice President, Retail Investment Sales</td>
<td>Columbus, OH</td>
</tr>
<tr>
<td>Jeff Levine</td>
<td>Assistant Zone Marketing Manager</td>
<td>Newark, OH</td>
</tr>
<tr>
<td>John Lewis</td>
<td>Corporate Information Marketing Manager</td>
<td>Columbus, OH</td>
</tr>
<tr>
<td>Ted Light</td>
<td>Miami University</td>
<td>Oxford, OH</td>
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<tr>
<td>Jeff Lightner</td>
<td>Brower Insurance Agency</td>
<td>Dayton, OH</td>
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<tr>
<td>Matt Lillie</td>
<td>VIP Realty</td>
<td>Wichita, KS</td>
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<tr>
<td>Julie Linch</td>
<td>Senior Vice President, Member Services</td>
<td>Sylvania, OH</td>
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<tr>
<td>Ginger Lindsey</td>
<td>Director</td>
<td>Duluth, GA</td>
</tr>
<tr>
<td>Shannon Littlejohn</td>
<td>President</td>
<td>Wichita, KS</td>
</tr>
</tbody>
</table>
Listing of Participants

Linda Becker, CLU
Life Training Coordinator
State Farm Insurance
Columbus, OH

Jesus Lopez
Project Management Advisor
State of North Carolina, Information Technology Services
Raleigh, NC

Libby Beckley, CPS/CAP
Executive Assistant - Legal Department
Hexion Specialty Chemicals
Columbus, OH

Carolyn R. Lord
Development Manager
Make-A-Wish Foundation
Seattle, WA

Jahanshahi Behfar
Interworks
Stillwater, OH

Andrea Lynch
Business Manager
Support Technologies
Columbus, OH

Brian Beidelman, SPHR
Human Resource Manager
Marsh Supermarkets, LLC
Indianapolis, IN

Joyce Lynch
Human Resources Manager
The Lathrop Company
Maumee, OH

Curt Bembenek
Servicemaster
Madison, WI

Jeff Machut
AmeriInn of Monona
Monona, WI

Karri Benishek
Field Marketing Manager
Wendy’s Midwest Region
Columbus, OH

Snorria Maeshack, MBA
American Express Financial
Charlotte, NC

Kent Benson
Broker/Owner
Porchlight Real Estate
Cary, NC

Kevin Mann
Lifer Underwriting Team Leader
State Farm Life Insurance
New Albany, OH

Michelle Benson
General Manager
Office Suites Plus
Cary, NC

Beverly Martin
Senior Vice President
Hicks Partners
Columbus, OH

Sandra Benton
Area Director of Sales and Marketing
Summit Hospitality Group, Ltd.
Raleigh, NC

Lou Martin
Administrative Assistant and Office Manager
North Carolina Business Committee for Education
Raleigh, NC

Peggy Berry
Business Coaching and Consulting
Bellevue, WA

Ralph Martinez
President
Amvest Securities
Columbus, OH

Becky Bhaer
Clerk of Courts
Wood County Courts
Bowling Green, OH

Gale Matson
Agent
State Farm Insurance
Lincoln, NE
Eleanor E. Biddulph  
Vice President, Client Services  
Progressive Medical  
Galena, OH

Robert A. Mauk, CFP  
Chornyak and Associates Ltd  
Columbus, OH

Susan Bigelow  
Director of Corporate Finance  
The BISYS Group  
Columbus, OH

Ric Mazon  
Business Development  
Ohio PIA  
Gahanna, OH

Jennifer Black  
Auburn Career Center  
Concord Twp, OH

Tim McCabe  
Badin High School  
Hamilton, OH

Vicki Blair  
Peer Review Manager, Firm Development and Administration  
Kentucky Society of Certified Public Accountants  
Louisville, KY

Kevin McCalla  
Director, Marketing  
Liebert Corp.  
Columbus, OH

Kari Blanton  
RoadHouse Espresso  
Graham, WA

Robert McClure  
EVP, COO  
First Citizens National Bank  
Upper Sandusky, OH

Steve Bloemer  
Sr. VP Corporate Finance  
Commerce Bank  
West Chester, OH

Bill McClure  
Financial Planner  
Columbus, OH

Lee Blyth  
Columbus State Community College  
Columbus, OH

Kris McCombs  
Community Banking District Manager, Vice President  
Wells Fargo Bank  
Omaha, NE

Doris Bodnar  
President  
The Bodnar Group  
Coral Springs, FL

Jessica McCormick  
District Manager  
Kelly Services  
Omaha, NE

Kim Bohannon  
NC Credit Union League  
Greensboro, NC

Melissa McGonigal  
Business Banker  
Sky Bank  
Westerville, OH

Dick Boisseau  
President  
DG Technical Sales  
Canal Winchester, OH

Chris McGovern  
President  
Emerging Marketing  
Columbus, OH

John Bollman  
EVP, Retail Lending  
National City Mortgage Co.  
Miamisburg, OH

Gail McGreevy  
Mid-East CTC-Zanesville Campus  
Zanesville, OH
<table>
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<tr>
<td>Charles Booe</td>
<td></td>
<td>Rebecca-Ruth Candy, Inc.</td>
<td>Frankfort, KY</td>
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<tr>
<td>Laurie McIntosh</td>
<td>Human Resource Manager</td>
<td>Conagra Foods, Inc.</td>
<td>Omaha, NE</td>
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<tr>
<td>Keith Bookbinder</td>
<td>President</td>
<td>Harbour Financial</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td>Dorothy McIver</td>
<td>Director of Training</td>
<td>eTapestry</td>
<td>Indianapolis, IN</td>
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<tr>
<td>Chris Bouzounis</td>
<td>Owner-President</td>
<td>Artina Promotional Products</td>
<td>Columbus, OH</td>
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<tr>
<td>Lisa McLaurin</td>
<td>Member Education Specialist</td>
<td>State Employees' Credit Union</td>
<td>Raleigh, NC</td>
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<tr>
<td>Shannon Bowles</td>
<td>Area General Manager</td>
<td>Nashville Airport Marriott Hotel</td>
<td>Nashville, TN</td>
</tr>
<tr>
<td>Avery McLean</td>
<td>Associate Athletic Director, Marketing and Promotion</td>
<td>UGA Athletic Department</td>
<td>Athens, GA</td>
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<tr>
<td>Regina Braden</td>
<td>Director, Market Research, Corp Marketing</td>
<td>Nationwide</td>
<td>Columbus, OH</td>
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<tr>
<td>Phyllis McMullen</td>
<td>Assistant to Michelle Benz, VP, Business Development</td>
<td>Nationwide</td>
<td>Columbus, OH</td>
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<tr>
<td>Scott Bradley</td>
<td>President</td>
<td>Pinnacle Bank</td>
<td>Omaha, NE</td>
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<tr>
<td>Luisa Mendoza</td>
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<td>Nakia Enterprises, LLC</td>
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<td>Eliott Bradshaw</td>
<td>Frozen Web Hosting</td>
<td>Frozen Web Hosting</td>
<td>Bellingham, WA</td>
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<td>Angie Mergkling</td>
<td>Senior Project/QA Support Manager</td>
<td>Grange Insurance</td>
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<td>Ann Brady</td>
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<td>James Breedlove</td>
<td>Creative Director</td>
<td>Creative Marketing Solutions</td>
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<td>Becky Migas</td>
<td>Director of Marketing</td>
<td>Jackson Hewitt Tax Services</td>
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<td>Regional Consultant</td>
<td>Fidelity Investments</td>
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<td>Jeff Milgrom</td>
<td>President</td>
<td>Event Marketing Strategies</td>
<td>Dublin, OH</td>
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<td>Deb Brewer</td>
<td>President</td>
<td>CrystalVision LLC</td>
<td>Portsmouth, NH</td>
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<td>Christine Miller</td>
<td>Employment Specialist, Seattle Division</td>
<td>Safeway</td>
<td>Bellevue, WA</td>
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<td>Richard Brock</td>
<td>General Sales Manager</td>
<td>Specialty North American</td>
<td>Lewis Center, OH</td>
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<td>Janet Brookbank</td>
<td>Benefits Administrator</td>
<td>Kemba Financial Credit Union</td>
<td>Gahanna, OH</td>
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<td>Lisa Brooks</td>
<td>Branch Manager</td>
<td>Fifth Third</td>
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<td>Mickey Brooks</td>
<td>Senior Vice President of Project Management</td>
<td>State Employees’ Credit Union</td>
<td>Raleigh, NC</td>
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<td>Pete Brophy</td>
<td>Store Sales Manager</td>
<td>Finish Line #282</td>
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<td>Nancy Brown</td>
<td>Merle Norman Cosmetics</td>
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<td>Mark Brown</td>
<td>Regional Account Manager</td>
<td>Sears</td>
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<td>Mark Bunner</td>
<td>CFO</td>
<td>Stanley Steemer International, Inc.</td>
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<td>Jayne Burns</td>
<td>State Farm Insurance</td>
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<td>Cathy Burris</td>
<td>Master Sales</td>
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<td>Broker</td>
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<td>Laurie Mischell</td>
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<td>Fairfield High School (Butler Tech)</td>
<td>Fairfield, OH</td>
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<tr>
<td>Jane Mitchell</td>
<td></td>
<td>Raleigh Market President and Senior Vice President</td>
<td>Raleigh, NC</td>
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<tr>
<td>Kevin Mitchell</td>
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<td>Store Manager</td>
<td>Marsh Supermarket</td>
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<tr>
<td>Brian L. Moore</td>
<td></td>
<td>Olympic Sports Marketing Coordinator</td>
<td>Georgia Tech Athletic Association</td>
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<tr>
<td>Jeff Moore</td>
<td></td>
<td>VP, Finance and CFO</td>
<td>SYSCO Food Services of Cleveland, Inc.</td>
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<tr>
<td>Lisa Moore</td>
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<td>Human Resources Manager</td>
<td>Union Bank and Trust</td>
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<tr>
<td>Cindy Moradiou</td>
<td></td>
<td>HR Director</td>
<td>Sheraton Music City Hotel</td>
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<tr>
<td>Alan Morgan</td>
<td></td>
<td>American Express Financial</td>
<td>Raleigh, NC</td>
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<tr>
<td>Don Morgan</td>
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<td>President</td>
<td>Barber Martin Advertising</td>
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<tr>
<td>Maureen Morgenthien</td>
<td></td>
<td>Greater Ft. Lauderdale CVB</td>
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### Listing of Participants

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<thead>
<tr>
<th>Name</th>
<th>Company/Position</th>
<th>Location</th>
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<tbody>
<tr>
<td>Jill Burton</td>
<td>Marketing Solutions</td>
<td>Frankfort, KY</td>
</tr>
<tr>
<td>Tonya Morton</td>
<td>Kids Under Construction</td>
<td>Stillwater, OK</td>
</tr>
<tr>
<td>Robin Butler Leonard</td>
<td>Executive Director, Marketing</td>
<td>WD Partners, OH</td>
</tr>
<tr>
<td>Rob Moyer</td>
<td>President</td>
<td>Rexarc International, OH</td>
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<tr>
<td>Bill Byrd</td>
<td>Web Developer/Business Analyst</td>
<td>Indiana Farm Bureau Insurance, Indianapolis, IN</td>
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<tr>
<td>Rachael Mullinax, CPA</td>
<td>Professor of Accounting</td>
<td>Berea College, Lexington, KY</td>
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<tr>
<td>Terri Campbell</td>
<td>Assistant Professor</td>
<td>Clark State Community College, Springfield, OH</td>
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<tr>
<td>Dave Murray</td>
<td>Executive Vice President</td>
<td>Marketing Research Services, Inc., Cincinnati, OH</td>
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<tr>
<td>James Campbell</td>
<td>Campbell Brothers Carpet and Tile</td>
<td>Stillwater, OK</td>
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<tr>
<td>W. Andrew Myers</td>
<td>Sr. Financial Specialist</td>
<td>Wachovia, Charlotte, NC</td>
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<tr>
<td>Connie Capuano</td>
<td>VP, Business Dev and Communications</td>
<td>BMI Federal Credit Union, Columbus, OH</td>
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<tr>
<td>Liz Myhre</td>
<td>Goodheart-Willcox Publisher</td>
<td>Cary, NC</td>
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<tr>
<td>Rich Capuano</td>
<td>VP of Finance</td>
<td>Credit Union of Ohio, Columbus, OH</td>
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<tr>
<td>Joe Napoli</td>
<td>General Manager</td>
<td>Toledo Mud Hens Baseball, Toledo, OH</td>
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<tr>
<td>Debbie Carlson</td>
<td>Advertising Coordinator</td>
<td>MARTA, Atlanta, GA</td>
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<td>Michael Nass</td>
<td>Chameleons, Inc.</td>
<td>Green Bay, WI</td>
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<td>Bill Carlson</td>
<td>Get the Call Answering Service</td>
<td>Torrington, CT</td>
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<tr>
<td>Brad Neff</td>
<td>CPA</td>
<td>Farm Bureau Insurance, Indianapolis, IN</td>
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<tr>
<td>Pam Carter</td>
<td>Board Vice President</td>
<td>Miss Georgia Pageant, Columbus, GA</td>
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<tr>
<td>Lewbel Neil</td>
<td>Startup and Marketing Consultant</td>
<td>Dublin, OH</td>
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<tr>
<td>Cindy Carvour</td>
<td>Management Supervisor</td>
<td>HGA, Inc., Columbus, OH</td>
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<tr>
<td>Kevin Neuschaefer</td>
<td>Customer Sales Specialist</td>
<td>Barnes Distribution, Raleigh, NC</td>
</tr>
</tbody>
</table>
Listing of Participants

Nick Cellentani
VP, Operations and Storage Consulting
Cranel, Inc.
Columbus, OH

Tina Chapman
Norton High School
Norton, OH

Jamie Charlton
CFP
Saxon Financial Consulting
Cincinnati, OH

Daniel Charna
VP, Operations
Glory Foods, Inc.
Columbus, OH

Shelly Chenoweth
Youth Entrepreneurs of Kansas
Wichita, KS

Amy Christensen
Human Resources Manager
Mutual of Omaha
Omaha, NE

Rogge Christie
Human Resource Manager
Mutual of Omaha
Omaha, NE

Mary Church
Wholesale Customer Service Director
Wachovia Bank
Raleigh, NC

Sandy Close
Close Harbour Seafood
Waterbury, CT

Cindy Close
Department Chair
Start State Community College

Russell Cochrane
Gahanna Lincoln High School
Gahanna, OH

Frank Nino
JCPenney Logistics LP
Columbus, OH

Deborah North
Executive Director
Enterprise Works
Columbus, OH

Tom Nugent
Business Coaching and Consulting
Bellevue, WA

Spencer Nye
Nye Services/A Plus Auto Detail
Shoreline, WA

Karen Oberlander
Licking County JVS
Newark, OH

Kevin Olivett
Group Sales Associate
Georgia Tech Athletic Association
Atlanta, GA

Kellian O'Neil
World Wide Project Lead/Project Manager
Lenovo US
Wake Forest, NC

Jim Oppenlander
President
Dome Financial Services, Inc.
Columbus, OH

Patrick O'Reilly
MedComm Billing Consultants, LTD
Dublin, OH

William Osgood
President
Knowledge Institute
East Kingston, NH

Doug Owsley
Yield Manager
Pacer Global Logistics
Dublin, OH
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<th>Name</th>
<th>Title</th>
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<th>Location</th>
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<tr>
<td>Shane Cohn</td>
<td>Human Resources Generalist</td>
<td>Citigroup, Inc.</td>
<td>St. Charles, MO</td>
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<tr>
<td>Paula Collier</td>
<td>Senior Office Associate</td>
<td>Columbus State Community College</td>
<td>Columbus, OH</td>
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<td>Sheila Colvin, SPHR</td>
<td>Human Resources Representative, Midwest Region</td>
<td>FCCI Insurance Group</td>
<td>Carmel, IN</td>
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<td>Frank Compton</td>
<td>Chairman</td>
<td>Sawyer Riley Compton</td>
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<td>Chris Conner</td>
<td>Conner Creative</td>
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<td>Wichita, KS</td>
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<td>Diane Cook</td>
<td>Office Manager</td>
<td>Calfee, Halter and Griswold LLP</td>
<td>Columbus, OH</td>
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<td>Constance Cooper</td>
<td>University of Cincinnati</td>
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<tr>
<td>Wendy Cooper</td>
<td>Cruise.com</td>
<td>Cruise.com</td>
<td>Port Everglades, FL</td>
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<td>William Cooper, Jr., PMP</td>
<td>Sr. Consultant, Process Management</td>
<td>Nationwide Insurance</td>
<td>Columbus, OH</td>
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<td>Sherrie R. Cottrell</td>
<td>Human Resources Manager</td>
<td>Immanuel Health Systems</td>
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<td>Andrew Courtice</td>
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<tr>
<td>Sharon Palmieri</td>
<td>Sr. Analyst, Strategic Marketing and Intelligence</td>
<td>Home Depot</td>
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<td>Cynthia Paskoff</td>
<td>Marketing Coordinator</td>
<td>Speer Mechanical.</td>
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<td>Linda Patchett</td>
<td>Sr. Analyst, Strategic Marketing and Intelligence</td>
<td>Woodward Financial Advisors</td>
<td>Chapel Hill, NC</td>
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<td>Cara Paulette</td>
<td>Scott High School</td>
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<td>Samanda Pepperling</td>
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<td>Michael Perrett</td>
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<td>Greg Perry</td>
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<td>Polly Petricola</td>
<td>Sr. Consultant, Process Management</td>
<td>Sales Manager, President</td>
<td>Ad Products of Dayton</td>
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<td>Dennis Pfeffer</td>
<td>Senior Vice President</td>
<td>Marsh USA</td>
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<td>Dave Phelps</td>
<td>Senior Vice President</td>
<td>Morgan Keegan and Co., Inc.</td>
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<tr>
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<td>Kay Cowing</td>
<td>Business Manager</td>
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<td>Park Bank Support</td>
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<td>Gary Craig</td>
<td>Strategic Commodity Manager</td>
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<td>Sandy Crites</td>
<td>Administrative Assistant</td>
<td>National Church Residences Healthcare</td>
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<tr>
<td>Bruce Crocco</td>
<td>Executive Director, Market Programs and</td>
<td>OCLC</td>
<td>Dublin, OH</td>
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<td></td>
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<tr>
<td>Anne Cronin</td>
<td>Certified Procedural Coder</td>
<td>Neurological Associates, Inc.</td>
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<td>Sandy Croucher</td>
<td>Account Director</td>
<td>GJP Advertising</td>
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<tr>
<td>Kathleen Cusson-Cail</td>
<td>President/Owner</td>
<td>Aggregate Business and Communication</td>
<td>Manchester, NH</td>
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<td>Mark Czapla</td>
<td>Branch Manager</td>
<td>First National Bank</td>
<td>Syracuse, NE</td>
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<tr>
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<tr>
<td>Ole Dam</td>
<td>President of Operations</td>
<td>The Antioch Co.</td>
<td>Yellow Springs, OH</td>
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<tr>
<td>Mark Davidson</td>
<td>Owner</td>
<td>Davidson Insurance Agency</td>
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<tr>
<td>Kim Davis</td>
<td>Vice President</td>
<td>Citizens Union Bank</td>
<td>Shelbyville, KY</td>
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<td>William F. Randolph</td>
<td>Executive Vice President, Regional</td>
<td>KeyBank, N.A.</td>
<td>Columbus, OH</td>
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<td>Sue Ramge</td>
<td>Redemtech</td>
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</table>
Listing of Participants

Michael Davis, CFP
Wilson Advisory
Cincinnati, OH

Alan Ray, CFP
Financial Services Representative
First Service Federal Credit Union
Columbus, OH

Amy Dawson
Senior Vice President
Fahlgren, Inc.
Columbus, OH

Don Rebele
President
The Griffith Foundation for Insurance Education
Worthington, OH

Nancy Deal
Sales Manager
Nashville Airport Marriott Hotel
Nashville, TN

Mie Young Reed
Director of Human Resources
Indianapolis Marriott Hotel
Indianapolis, IN

Chris Dean, CPA
GBQ Partners
Columbus, OH

Sarah Reed
Sarah Reed Solutions
Reynoldsburg, OH

Frank Deaner
Executive Director
Ohio Newspaper Association
Columbus, OH

Daniel Reinier
Staff Accountant
Rea and Associates
Dublin, OH

John Deegan
Manager, Network Services
Wellpoint
Indianapolis, IN

Jean Reynolds
Vice President, Marketing
State Auto Insurance Co.
Columbus, OH

Mary Ellen Deegan, PMP
Project Director-Technical
Wellpoint
Indianapolis, IN

Ken Rhoden
Agent
Mayfield Agency
Mooresville, IN

Karen Deeter
Director of Operations
Columbus Speech and Hearing Center
Columbus, OH

Christine Rice
Assistant Vice President
J.P Morgan Chase
Columbus, OH

Paul Deibel
Technical Sales, Industrial Products
Atlas Machine and Supply
Columbus, OH

Mimi Ricigliano
Owner
Nana's Village House
Zionsville, IN

Sally Delp
Project Manager
The ILM Group
Indianapolis, IN

Gayle Ridgway
Key Account Manager
Atlanta Coca-Cola Bottling Co.
Atlanta, GA

Michael Dempsey
Wealth Adviser
Morgan Stanley
Edgewood, KY

Donald W. Rivers, CFP
Investment Sales Specialist
Banc One Securities Corporation
Columbus, OH
Listing of Participants

Natalie Dennis
Controller
Gannett Media Technologies International
Cincinnati, OH

Jim Rizzo
Regional Marketing Manager
The Wasserstrom Co.
Columbus, OH

Fairchild Dennis
Branch Manager
Huntington National Bank
Toledo, OH

Monika Roberts
Senior Account Manager
Creatives on Call
Cincinnati, OH

Anna Diekman
Clay High School
Oregon, OH

Janine Robinson
Director of Operations
Triad, Inc.
Westerville, OH

Joseph DiMartino, Ph.D.
VP Product Research
Grange Insurance
Columbus, OH

Jeff Robinson
Division HR Manager
Wendy's International
Columbus, OH

Louis Dissel
Regional Investment Manager
Fifth Third Securities
Cincinnati, OH

Joe Rodrigues
Rodrigues Masonry
Brookfield, CT

Frank DiTillo
Executive Vice President
Farmers and Merchants Bank and Trust Co.
Hannibal, MO

Rodger Roeser
Vice President
Justice and Young Advertising
Cincinnati, OH

Cynthia Dittrich
Management Analyst
City of San Antonio
San Antonio, TX

Nita Rollins
Executive Director of Marketing
Resource Interactive
Columbus, OH

Chris Doemland
Manager
EI CPA
Indianapolis, IN

Judy Ronk, SPHR, AIM
Director, Corporate Training
Farm Bureau Insurance
Indianapolis, IN

Jim Dooley
Manager, Employee Training Services
State Auto Insurance Co.
Columbus, OH

Roger Ronk, CAE
Executive Vice President
Independent Insurance Agents of Indiana, Inc.
Indianapolis, IN

John Drake
President
Affirmative Mortgage Solutions
Cincinnati, OH

Rusty Roof
Longaberger Co.
Newark, OH

Michelle Duncan, CPS/CAP
Executive Secretary
Nationwide
Columbus, OH

Kathy Rosenberry
Human Resources Manager
Squire, Sanders and Dempsey LLP
Columbus, OH
<table>
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<tr>
<th>Name</th>
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<th>Company/Association</th>
<th>City, State</th>
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<tbody>
<tr>
<td>Scott Dupree</td>
<td>Director of Sports Marketing</td>
<td>Greater Raleigh Convention and Visitors Bureau</td>
<td>Raleigh, NC</td>
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<tr>
<td>Ann M. Eatherton</td>
<td>Personnel Department</td>
<td>Personnel Department</td>
<td>Omaha, NE</td>
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<tr>
<td>Barbara Eickmeyer</td>
<td>Sales Manager</td>
<td>Time Warner Cable, Media Sales</td>
<td>Norwood, OH</td>
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<tr>
<td>Trish Elkind</td>
<td>Owner - General Manager</td>
<td>Pet People</td>
<td>Upper Arlington, OH</td>
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<tr>
<td>Michael W. Eller</td>
<td>Gross Margin Planning</td>
<td>Bon Marche - Macy's</td>
<td>Covington, WA</td>
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<td>Deborah Enright</td>
<td>Founder/CEO</td>
<td>Captured on Camera</td>
<td>Amherst, NH</td>
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<td>Kristin Erwin</td>
<td>Free Radical</td>
<td>Free Radical</td>
<td>Richmond, VA</td>
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<td>Robert Eubanks</td>
<td>Telecom Network Services</td>
<td>Telecom Network Services</td>
<td>Reynoldsburg, OH</td>
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<td>Allen Fabian</td>
<td>Associate Director of Learning Resources</td>
<td>Roxane Laboratories, Inc.</td>
<td>Columbus, OH</td>
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<tr>
<td>Anthony Fabiano</td>
<td>Sr Vice President, Corporate Finance</td>
<td>Bank Atlantic</td>
<td>Ft. Lauderdale, FL</td>
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<td>David L. Feinberg</td>
<td>Crowe Chizek and Company LLC</td>
<td>Crowe Chizek and Company LLC</td>
<td>Indianapolis, IN</td>
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<td>Scott Dupree</td>
<td>Nicole Rothenberg</td>
<td>Branch Manager</td>
<td>Coral Springs, FL</td>
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<td>Paula M. Ryan</td>
<td>Director of Marketing</td>
<td>Schooley Caldwell Associates</td>
<td>Columbus, OH</td>
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<td>Frances Saad</td>
<td>KnowledgeWorks Foundation</td>
<td>KnowledgeWorks Foundation</td>
<td>Cincinnati, OH</td>
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<tr>
<td>Brette Sadler</td>
<td>Senior Director, Marketing Partnerships</td>
<td>Office Depot Center/FL Panthers Hockey</td>
<td>Sunrise, FL</td>
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<tr>
<td>Susan Sandage</td>
<td>Vice President</td>
<td>Kentucky Council on Economic Education</td>
<td>Louisville, KY</td>
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<td>Kyle Sanders</td>
<td>Investment Adviser Representative</td>
<td>John Hancock Financial Network</td>
<td>Indianapolis, IN</td>
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<tr>
<td>Todd Santoro</td>
<td>Director, Customer Care</td>
<td>AAA Nebraska</td>
<td>Omaha, NE</td>
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<td>Dexter Santos</td>
<td>Senior Director, Marketing and Civic Affairs</td>
<td>Atlanta Hawks</td>
<td>Atlanta, GA</td>
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<tr>
<td>Pat Schell</td>
<td>Sr. HR Manager</td>
<td>Limited Logistics Services</td>
<td>Columbus, OH</td>
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<td>Richard Schenck</td>
<td>Wells Fargo Bank</td>
<td>Wells Fargo Bank</td>
<td>Omaha, NE</td>
</tr>
<tr>
<td>Louis C. Schmitt</td>
<td>Chief Financial Officer</td>
<td>Junior Achievement of Central Indiana</td>
<td>Indianapolis, IN</td>
</tr>
</tbody>
</table>
Listing of Participants

David Feldstein, CFP
Financial Advisor
Ameriprise Financial Services, Inc.
Fairfield, OH

Michael Fergang
VP Information Services
Grange Insurance
Columbus, OH

Jamie Ferguson
Vice President and Retail Market Executive
First Citizens Bank
Raleigh, NC

Sheri Fermanich
sellbuildbuy.com
Middleton, WI

Eric Ferrettie
LM Hendson and Co.
Indianapolis, IN

Andrea Fisher
Marketing Communications Manager
Burke Inc.
Cincinnati, OH

Susan Fleetwood
Director of Strategic Projects
North Carolina Department of Commerce, Business/Industry Division
Raleigh, NC

Melanie A. Fly
Director of Marketing
Hilton Nashville Downtown
Nashville, TN

Ann Flynn
President/Owner
Beyond Data, Inc.
Cincinnati, OH

Pamela Foster
Vice President, Community Development
Fifth Third Bank
Columbus, OH

Steven Frank
CFP
Wachovia Securities
Cincinnati, OH

Richard Schrader
Associate Professor
Bellarine University
Louisville, KY

Brad Schroeder
Director of Talent Management
Blue Cross Blue Shield
Omaha, NE

Carol Schuler
Heartland Bank-Downtown
Columbus, OH

Dave Schwab
Store Sales Manager
Finish Line
Columbus, OH

Debby Scott
Advanced Business Concepts
Danbury, CT

Ethel Scott
Area Operations Leader
KeyBank
Toledo, OH

Monica Scott
Loss Prevention Coordinator
Homegoods/TJX Companies
Davie, FL

Kim Serra-Rivera
Assistant Vice President
Regent Bank
Ft. Lauderdale, FL

Jeff Shald
Holmes Murphy
Omaha, NE

Jonathan Shepard
EJ's Landscaping
Bremerton, WA

Christa Sherrill
Sales Manager
Holiday Inn
Raleigh, NC
Ronald Fresh  
CFP  
USI Midwest  
Cincinnati, OH

Joe Friedman  
CB Richard Ellis  
Manchester, NH

John Frymire, CFP  
Financial Advisor  
Morgan Stanley  
Louisville, KY

Hunter Fugger  
Scotts Co.  
Marysville, OH

Mark Fuhrman  
Director of Corporate Sales  
Atlanta Falcons  
Flowery Branch, GA

Roger Fulk  
Wright State University  
Dayton, OH

Abbey Gaal  
Life Underwriter  
State Farm Insurance  
New Albany, OH

Carter Gaither  
Manager, Finance and Administration  
River Cities Capital Funds  
Cincinnati, OH

Bill Gase  
Vice President, Controller  
Tireman  
Toledo, OH

Lee Gatten  
Human Resources  
J. P. Morgan  
Columbus, OH

Todd Gehrmann  
FOCUS Training  
Milwaukee, WI

Joan Sherwood  
Arrow Aviation  
Danbury, CT

Jeff Shick  
President  
Technology and Economic Development Services  
Powell, OH

Bob Shoffner  
NC Council on Economic Education  
Raleigh, NC

Stanley Shotliff  
CFO  
Ricerca Biosciences LLC  
Concord, OH

Lenere Shrieves  
Vice President, Human Resources  
SBC Advertising  
Westerville, OH

Jennifer Simon  
Manager, Marketing Services  
Inoveris, LLC  
Dublin, OH

Chase Simonds  
Anticipate Productions  
Vancouver, WA

Jim Sloan  
President  
Comprehensive Computer Support, Inc.  
Indianapolis, IN

Chris Smith  
Sr. Budget Analyst  
Mercy Health Partners  
Cincinnati, OH

Dennis Smith  
Director of Sales  
Lion Apparel Inc.  
Dayton, OH

Kim Smith  
Senior Vice President and General Counsel  
Indiana Farmers Mutual Insurance Co.  
Indianapolis, IN
<table>
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<th>Name</th>
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<tr>
<td>John Geiger</td>
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<td>Mark Smith</td>
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<td>Gregory Gibbons</td>
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<td>Richard Sobieray</td>
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<td>Van Wert</td>
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<td>Penny Gold</td>
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<td>Don Gorman</td>
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<td>Marsha Sparkmon</td>
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<td>Johnny Graham</td>
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<td>Thomas E. Spitz</td>
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<td>Kenny Graham</td>
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<td>Laurie Stenwall-Roland</td>
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<td>Ramika Stephens, CPS, PHR</td>
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<td>Tracy Gray</td>
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<td>Gray and Associates Diversity Advertising and PR</td>
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<td>Dena Stevenson</td>
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<td>Red Wire Computers</td>
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<td>Phil Stillerman</td>
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<td>AEF Emblem</td>
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<td>Kelly Greene</td>
<td>Public Relations Manager</td>
<td>Turner Sports</td>
<td>Atlanta, GA</td>
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<td>Paul H. Stock</td>
<td>Executive Vice President and Counsel</td>
<td>NC Bankers Association</td>
<td>Raleigh, NC</td>
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<td>Dotsy Griffith</td>
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<td>Eli Lilly/NovaQuest</td>
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<td>Bob Stoops</td>
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<td>Scott Grimes, JD, CPA</td>
<td>Partner, Chair, Tax Division</td>
<td>Norman, Jones, Enlow and Co.</td>
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<td>Bryan Grisak</td>
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<td>Judith Tackett</td>
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<td>Scott Grof</td>
<td>Manager, Market Research</td>
<td>Ameritas Life Insurance Corp</td>
<td>Lincoln, NE</td>
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<tr>
<td>Melissa Tammarine</td>
<td>Life Systems Coordinator</td>
<td>State Farm Insurance</td>
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<td>Lee Groza, CPA/CITP</td>
<td>Partner</td>
<td>Mountjoy and Bressler, LLP</td>
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<tr>
<td>Everett Taylor</td>
<td>Principal Engineer</td>
<td>Technology Assurance Group</td>
<td>Richmond, VA</td>
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<td>Gary Grubert</td>
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<td>Jim Hall</td>
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<td>Sharon Hall</td>
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<td>Grange Insurance Companies</td>
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<td>Paul Hamilos</td>
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<td>Patrick Terrien</td>
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<td>Jeffrey S. Thomison, CFA</td>
<td>Vice President, Research Analyst</td>
<td>Hilliard Lyons</td>
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<td>Rick Thompson</td>
<td>Financial Services Advisor</td>
<td>State Farm Insurance</td>
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<td>Missy Thompson</td>
<td>HR Manager</td>
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<td>Steve Thrash</td>
<td>CEO</td>
<td>ServCo</td>
<td>Indianapolis, IN</td>
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<td>Emily Tillman</td>
<td>Human Resources Manager</td>
<td>Anderson Management Group, Inc.</td>
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<td>Pat Tokarcik</td>
<td>Director, HR</td>
<td>VSM Sewing, Inc.</td>
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<td>Marilyn J. Tomasi</td>
<td>Senior Vice President, Columbus Operations Officer</td>
<td>Edward Howard and Co.</td>
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<tr>
<td>Carole Tomko</td>
<td>Partner</td>
<td>Woodmansee Group</td>
<td>Columbus, OH</td>
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</tbody>
</table>
Listing of Participants

Bruce Harlan
CEO
Buckeye Corner
Columbus, OH

Robert Harold
Regional Operating Director
Discover Financial Services
New Albany, OH

Susan Harrington
President
Idealine
Cincinnati, OH

Lisa Harris
First Vice President, COO
Home Federal Bank
Grand Island, NE

Cathe Harris
Project Manager/Assistant CIO
Capital University
Upper Arlington, OH

Marc A. Harrison
Operations Supervisor
Greyhound Lines, Inc.
San Antonio, TX

Anthony Hart
Hart Portrait Artists
Stillwater, OK

Teresita Hartz
College Tech Prep/Business Technology
Choffin Career and Technical Center
Youngstown, OH

Brad Hays
North Central State College
Mansfield, OH

Ray Heap
Partner
Teleco Columbus
Powell, OH

Richard Heck
Commercial Lending Team Leader
KeyBank
Toledo, OH

Debbie Trager
Director of Marketing
Escape Enterprises, Ltd.
Columbus, OH

Linda Travis
President
Brand Renovator
Decatur, GA

Chana Trimble
Medicaid Systems Analyst
Bureau of Managed Health Care
Columbus, OH

Michelle Tufford
Associate VP, Market Research, Corp Marketing
Nationwide
Columbus, OH

Matt Tunnell
Food Service Marketing Specialist
North Carolina Department of Agriculture and Consumer Services, Division of Marketing
Raleigh, NC

Ed Turner
President
Turner and Associates, Inc.
Powell, OH

Kim Tyndall
Consultant
Kim Tyndall
Westerville, OH

Amy Underwood, CPA, MT
Certified Public Accountant
Simon, Underwood and Associates
Louisville, KY

Linda Varga
Lorain County Career Center
Oberlin, OH

Jonathan Vaught
McAllen Solutions
Frankfort, KY

Ursula Vermillion
Executive Vice President
The Wasserstrom Company
Columbus, OH
<table>
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<tr>
<th>Name</th>
<th>Title/Position</th>
<th>Organization/Location</th>
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<tr>
<td>Mindy Hedges</td>
<td>President</td>
<td>Media Solutions, Inc. Delaware, OH</td>
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<td>Becky Von Ohlen</td>
<td></td>
<td>Columbus Office Administrator Ulmer and Berne LLP Columbus, OH</td>
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<td>Glen A. Hedgspeth, CIC</td>
<td>Vice President</td>
<td>Hayes, Utley, and Hedgspeth Louisville, KY</td>
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<td>Donna Vorce</td>
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<td>First Impressions Columbus, OH</td>
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<tr>
<td>Tom Heiby</td>
<td>Chief Executive Officer</td>
<td>Clary Communications Columbus, OH</td>
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<tr>
<td>Jon Vredevoogd</td>
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<td>Motorola Ft. Lauderdale, FL</td>
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<tr>
<td>Keith Hensley</td>
<td>Director of Sales and Marketing</td>
<td>Nashville Airport Marriott Hotel Nashville, TN</td>
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<td>Carolyn Waits</td>
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<tr>
<td>Ken Herr</td>
<td>Vice President, Corporate Development</td>
<td>Shook National Corp. Dayton, OH</td>
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<td>Trevor Walden</td>
<td>Area Director of Sales</td>
<td>Alliance Hospitality Raleigh, NC</td>
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<td>George Hicks</td>
<td>Zane State</td>
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<td>Marty Walker</td>
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<td>Jimmy Higdon</td>
<td>Higdon's Foodtown</td>
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<td>David Walters, CPCU</td>
<td>Corporate Secretary</td>
<td>The ILM Group Indianapolis, IN</td>
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<td>Matt Hilton</td>
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<td>Wachovia Bank Charlotte, NC</td>
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<td>Columbus Blue Jackets Columbus, OH</td>
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<td>Jim Hinds</td>
<td>Division VP Operations</td>
<td>Wendys International Columbus, OH</td>
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<td>John Wanchick</td>
<td>Assistant Deputy Director, MIS</td>
<td>Ohio Dept of Job and Family Services</td>
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<tr>
<td>Ed Hoffman</td>
<td>Senior Vice President, District Manager</td>
<td>State Employees Credit Union Raleigh, NC</td>
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<tr>
<td>Katie Hoffmann</td>
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<tr>
<td>Philip Weiker</td>
<td>Assistant Professor</td>
<td>Terra Community College Fremont, OH</td>
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<tr>
<td>Larry Holt</td>
<td>President</td>
<td>Max Marketing and Promotions</td>
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<tr>
<td>Ron Holt</td>
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<td>Holt's Toner Source, Inc.</td>
<td>Stillwater, OK</td>
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<td>Robin Holweger</td>
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<td>Kettering Fairmont High School</td>
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<td>Jessica Homan</td>
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<td>Kaffee Hopkins</td>
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<td>John Hrusovsky</td>
<td>CEO</td>
<td>Groundwork Group</td>
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<td>Laura Wendell</td>
<td>Sales and Service Training Center</td>
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<td>Laura Wendt</td>
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<td>Cindy Wesney</td>
<td>Human Resources Manager</td>
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<td>Audrey Whitaker</td>
<td>Manager, Banking Schools</td>
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<td>Pamela White</td>
<td>Capital Controller</td>
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<td>Rick Whitener</td>
<td>Principal</td>
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<td>Shannon Whitley</td>
<td>Vice President/City Officer</td>
<td>State Employees’ Credit Union</td>
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<td>Annette Whittemore</td>
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<td>American Research JPMorgan</td>
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<td>BJ Wiberg</td>
<td>President</td>
<td>Chamber of Commerce Executives of Ohio</td>
<td>Columbus, OH</td>
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<td>Bill Wilcox</td>
<td>Deputy Director of Management Services</td>
<td>Ohio School Boards Association</td>
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<td>Robert Wilkes</td>
<td>President</td>
<td>Wilkes Creative</td>
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<tr>
<td>John Huggard</td>
<td>Senior Partner</td>
<td>Huggard, Obiol and Blake PLLC</td>
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<td>Jim Willey</td>
<td>Associate Dean</td>
<td>Terra Community College</td>
<td>Fremont, OH</td>
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<td>Michael Hughes</td>
<td>Operations Director</td>
<td>The Atlanta Track Club</td>
<td>Atlanta, GA</td>
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<td>Matt Wilson</td>
<td>EVP and General Manager</td>
<td>SBC Advertising</td>
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<td>Teller Supervisor/Officer</td>
<td>Wisconsin Community Bank</td>
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<td>Mitch Wilson</td>
<td>VP, Public Information and Education</td>
<td>Ohio Insurance Institute</td>
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<td>Kurt Imerman</td>
<td>Senior Vice President</td>
<td>USBank</td>
<td>Bellevue, WA</td>
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<tr>
<td>Donna Winbon</td>
<td>Investment Representative</td>
<td>Edward Jones</td>
<td>Raleigh, NC</td>
</tr>
<tr>
<td>Frank Immel</td>
<td>Tech Rep</td>
<td>MONO Industrial Roofing Co.</td>
<td>Seattle, WA</td>
</tr>
<tr>
<td>Randy Winchester</td>
<td>Store Manager</td>
<td>Marsh Supermarkets</td>
<td>West Lafayette, IN</td>
</tr>
<tr>
<td>Greg Irving</td>
<td>VP, Sales</td>
<td>Simonton Building Products, Inc.</td>
<td>Parkersburg, WV</td>
</tr>
<tr>
<td>Matt Wise</td>
<td>Katz, Sapper and Miller LLP</td>
<td></td>
<td>Indianapolis, IN</td>
</tr>
<tr>
<td>Scott Ives</td>
<td>Account Executive</td>
<td>Clear Channel Communications</td>
<td>Manchester, NH</td>
</tr>
<tr>
<td>Dennis Wise</td>
<td>Triangle Business Journal</td>
<td></td>
<td>Raleigh, NC</td>
</tr>
<tr>
<td>Dick Izzard</td>
<td>President</td>
<td>Bindery and Specialties</td>
<td>Plain City, OH</td>
</tr>
<tr>
<td>Mandy Witcher</td>
<td>Catering/Convention Services Manager</td>
<td>Sheraton Music City Hotel</td>
<td>Nashville, TN</td>
</tr>
<tr>
<td>Philip Jackson</td>
<td>LM Henderson and Co.</td>
<td></td>
<td>Indianapolis, IN</td>
</tr>
<tr>
<td>Julie Woeste</td>
<td>Edgewood High School</td>
<td></td>
<td>Trenton, OH</td>
</tr>
<tr>
<td>Janet Jaksic</td>
<td>Mid Atlantic Regional Trainer</td>
<td>Finish Line</td>
<td>Pittsburgh, PA</td>
</tr>
<tr>
<td>Frank Wojcik, CFA</td>
<td>Vice President, Sr Portfolio Manager</td>
<td>Fifth Third Bank</td>
<td>Columbus, OH</td>
</tr>
<tr>
<td>Kathy Janoski</td>
<td>Director of Communication Services</td>
<td>Attache</td>
<td>Columbus, OH</td>
</tr>
<tr>
<td>Bill Wolfson</td>
<td>President</td>
<td>Landau Public Relations</td>
<td>Columbus, OH</td>
</tr>
</tbody>
</table>
## Listing of Participants

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Role</th>
<th>Company</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gwen Jarvis</td>
<td>President and CEO</td>
<td>INFINI International, Ltd.</td>
<td>Cleveland, OH</td>
</tr>
<tr>
<td>Kurt Wolter</td>
<td>Tax Senior Manager</td>
<td>Deloitte Tax</td>
<td>Columbus, OH</td>
</tr>
<tr>
<td>Colleen Jenkins</td>
<td>Director of Education Initiatives</td>
<td>SAS Institute, Inc.</td>
<td>Cary, NC</td>
</tr>
<tr>
<td>Anji Wood</td>
<td>Public Relations Manager</td>
<td>Special Olympics Georgia</td>
<td>Atlanta, GA</td>
</tr>
<tr>
<td>Jean Jerew</td>
<td>Neoprobe Corporation</td>
<td>Neoprobe Corporation</td>
<td>Dublin, OH</td>
</tr>
<tr>
<td>James Wood</td>
<td>Associate Professor</td>
<td>Cincinnati State</td>
<td>Cincinnati, OH</td>
</tr>
<tr>
<td>Keith Johnson</td>
<td>Account Executive</td>
<td>Neopost</td>
<td>Dublin, OH</td>
</tr>
<tr>
<td>Nancy Wood</td>
<td></td>
<td>Nahohka Unique Apparel</td>
<td>Stillwater, OK</td>
</tr>
<tr>
<td>Andrew Jones</td>
<td>Director, Brand Planning</td>
<td>WestWayne Advertising</td>
<td>Atlanta, GA</td>
</tr>
<tr>
<td>Lisa Worley</td>
<td></td>
<td>Coca-Cola Bottling Company</td>
<td>Raleigh, NC</td>
</tr>
<tr>
<td>Sandra Jones</td>
<td>Vice President, Member Education</td>
<td>State Employees’ Credit Union</td>
<td>Raleigh, NC</td>
</tr>
<tr>
<td>Wendy Worthington</td>
<td>Director, Human Resources</td>
<td>SIFCO Industries, Inc.</td>
<td>Cleveland, OH</td>
</tr>
<tr>
<td>Erika Kahler-Fahy</td>
<td>Marketing Manager</td>
<td>Bovis Lend Lease</td>
<td>Columbus, OH</td>
</tr>
<tr>
<td>Jennifer Huertz, PHR</td>
<td>Human Resources Manager</td>
<td>SSOE</td>
<td>Toledo, OH</td>
</tr>
<tr>
<td>Steve Kaplanis</td>
<td></td>
<td>Iovina Brothers Sporting Goods, Inc.</td>
<td>Danbury, CT</td>
</tr>
<tr>
<td>Christine Yokajty</td>
<td></td>
<td>Centerville High School</td>
<td>Centerville, OH</td>
</tr>
<tr>
<td>Natalie Karas</td>
<td>Branch Manager</td>
<td>The Arlington Bank</td>
<td>Columbus, OH</td>
</tr>
<tr>
<td>Ned Young</td>
<td>Professor and Chairperson, Business Mgmt/Marketing</td>
<td>Sinclair Community College</td>
<td>Dayton, OH</td>
</tr>
<tr>
<td>Mo Keifer</td>
<td>Legal Assistant/Office Manager</td>
<td>Saia and Piatt, PLL</td>
<td>Columbus, OH</td>
</tr>
<tr>
<td>Jim Zawodny</td>
<td>Sales Executive</td>
<td>D.B. Hess</td>
<td>London, OH</td>
</tr>
<tr>
<td>Roberta Keller</td>
<td>Vice President</td>
<td></td>
<td>London, OH</td>
</tr>
<tr>
<td>Gary Zimmerman</td>
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<td></td>
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</tr>
</tbody>
</table>
Lois Kellogg
Manager
American Electric Power
Columbus, OH

Monica Zoerner
Proposal Specialist
Gates-McDonald and Co.
Columbus, OH

Kim Kelly-Bartley
VP, Marketing and Site Development
White Castle System, Inc.
Columbus, OH

Marion Zollucio-Carey
Holland America Line
Ft. Lauderdale, FL

Brian Kennedy
Divisional Manager
Yokkaichi America Corporation
Marysville, OH

Barbara Zuhlke
Warm Woman
Oregon, WI

Carolyn King
Vice President, Commercial Banking
Huntington Bancshares
Columbus, OH

Robert Zullo
UGA Athletic Association
Athens, GA

Danita Kirtley
Human Resources Generalist
State Auto Insurance
Indianapolis, IN
Appendix C
National Career Cluster Format
For the Business Management and Administration (BMA) Cluster
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Cluster Topic: Communications

Cluster Knowledge and Skill Statement: Understands the concepts, strategies, and systems used to obtain and convey ideas and information

Performance Element: Read to acquire meaning from written material and to apply the information to a task.

Measurement Criteria:
1) Identify sources that provide relevant, valid written material
2) Extract relevant information from written materials
3) Apply written directions to achieve tasks
4) Analyze company resources to ascertain policies and procedures

Performance Element: Apply active listening skills to demonstrate understanding of what is being said.

Measurement Criteria:
1) Explain communication techniques that support and encourage speakers
2) Follow oral directions
3) Demonstrate active listening skills

Performance Element: Apply verbal skills to obtain and convey information.

Measurement Criteria:
1) Explain the nature of effective verbal communications
2) Ask relevant questions
3) Interpret others’ nonverbal cues
4) Provide legitimate responses to inquiries
5) Give verbal directions
6) Employ communication styles appropriate to target audience
7) Defend ideas objectively
8) Handle telephone calls in a businesslike manner
9) Participate in group discussions
10) Make oral presentations
Performance Element: Record information to maintain and present a report of business activity.

Measurement Criteria: 1) Utilize note-taking strategies
                  2) Organize information graphically
                  3) Select and use appropriate graphic aids

Performance Element: Write internal and external business correspondence to convey and obtain information effectively.

Measurement Criteria: 1) Explain the nature of effective written communications
                  2) Select and utilize appropriate formats for professional writing
                  3) Edit and revise written work consistent with professional standards
                  4) Write professional e-mails
                  5) Write and send business messages electronically
                  6) Write business letters
                  7) Write informational messages
                  8) Write inquiries
                  9) Write persuasive messages
                 10) Write executive summaries
                 11) Prepare simple written reports
                 12) Prepare complex written reports
                 13) Write proposals

Performance Element: Communicate with staff to clarify workplace objectives.

Measurement Criteria: 1) Explain the nature of staff communication
                  2) Choose appropriate channel for workplace communication
                  3) Participate in a staff meeting
                  4) Provide directions for completing job tasks
                  5) Update employees on business and economic trends
                  6) Conduct a staff meeting
Performance Element: Communicate effectively with customers to foster positive relationships that enhance company image.

Measurement Criteria: 1) Explain the nature of effective communication 2) Reinforce service orientation through communication 3) Respond to customer inquiries 4) Adapt communication to the cultural and social differences among clients 5) Interpret business policies to customers/clients

Performance Element: Use communication skills to influence others.

Measurement Criteria: 1) Persuade others 2) Demonstrate negotiation skills
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Cluster Topic: Ethics and Legal Responsibilities

Cluster Knowledge and Skill Statement: Understands business’s responsibility to know, abide by, and enforce laws, regulations, and ethical behavior that affect business operations and transactions

Performance Element: Employ ethical actions in obtaining and providing information to acquire others’ confidence.

Measurement Criteria:
1) Respect the privacy of others.
2) Explain ethical considerations in providing information
3) Protect confidential information.
4) Determine information appropriate to obtain from a client or another employee.

Performance Element: Apply ethics to demonstrate trustworthiness.

Measurement Criteria:
1) Explain the nature of business ethics
2) Demonstrate responsible behavior
3) Demonstrate honesty and integrity
4) Demonstrate ethical work habits

Performance Element: Manage internal and external business relationships to foster positive interactions.

Measurement Criteria:
1) Treat others fairly at work
2) Describe ethics in human resources issues

Performance Element: Acquire foundational knowledge of business laws and regulations to understand their nature and scope.

Measurement Criteria:
1) Discuss the nature of law and sources of law in the United States
2) Describe the United States’ judicial system
3) Describe legal issues affecting businesses
Performance Element: Understand the civil foundations of the legal environment of business to demonstrate knowledge of contracts.

Measurement Criteria: 1) Identify the basic torts relating to business enterprises
2) Describe the nature of legally binding contracts

Performance Element: Explore the regulatory environment of United States’ businesses to understand the diversity of regulations.

Measurement Criteria: 1) Describe the nature of legal procedure
2) Discuss the nature of debtor-creditor relationships
3) Explain the nature of agency relationships
4) Discuss the nature of environmental law
5) Discuss the role of administrative law

Performance Element: Understand human resources laws and regulations to facilitate business operations.

Measurement Criteria: 1) Explain the nature of human resources regulations
2) Explain the nature of workplace regulations (including OSHA, ADA)
3) Discuss employment relationships

Performance Element: Apply knowledge of business ownership to establish and continue business operations.

Measurement Criteria: 1) Explain types of business ownership
2) Select form of business ownership

Performance Element: Acquire knowledge of commerce laws and regulations to continue business operations.

Measurement Criteria: 1) Explain the nature of trade regulations
2) Describe the impact of anti-trust legislation
Performance Element: Understand tax laws and regulations to adhere to government requirements.

Measurement Criteria:

1) Explain the nature of tax regulations on business
2) Explain the nature of businesses’ reporting requirements
3) Develop strategies for legal/government compliance
### KNOWLEDGE & SKILL STRUCTURES

**Cluster:** Business Management and Administration  
**Cluster Topic:** Employability and Career Development  
**Cluster Knowledge and Skill Statement:** Understands concepts, tools, and strategies used to explore, obtain, and develop in a business career

<table>
<thead>
<tr>
<th>Performance Element</th>
<th>Measurement Criteria</th>
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<tr>
<td></td>
<td>Foster self-understanding to recognize the impact of personal feelings on others.</td>
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</table>
| Foster self-understanding to recognize the impact of personal feelings on others. | 1) Describe the nature of emotional intelligence  
2) Explain the concept of self-esteem  
3) Recognize personal biases and stereotypes  
4) Assess personal strengths and weaknesses |
|                    | Acquire self-development skills to enhance relationships and improve efficiency in the work environment. |
| Acquire self-development skills to enhance relationships and improve efficiency in the work environment. | 1) Maintain appropriate personal appearance  
2) Demonstrate systematic behavior  
3) Set personal goals  
4) Use feedback for personal growth |
|                    | Develop personal traits to foster career advancement. |
| Develop personal traits to foster career advancement. | 1) Identify desirable personality traits important to business  
2) Exhibit a positive attitude  
3) Exhibit self-confidence  
4) Demonstrate interest and enthusiasm  
5) Demonstrate initiative  
6) Foster positive working relationships |
|                    | Participate in career-planning to enhance job-success potential. |
| Participate in career-planning to enhance job-success potential. | 1) Assess personal interests and skills needed for success in business |
2) Analyze employer expectations in the business environment
3) Explain the rights of workers
4) Identify sources of career information
5) Identify tentative occupational interest
6) Explain employment opportunities in business

Performance Element: Implement job-seeking skills to obtain employment.

Measurement Criteria: 1) Utilize job-search strategies
2) Complete a job application
3) Interview for a job
4) Write a follow-up letter after job interviews
5) Write a letter of application
6) Prepare a résumé
7) Use networking techniques to identify employment opportunities

Performance Element: Utilize career-advancement activities to enhance professional development.

Measurement Criteria: 1) Describe techniques for obtaining work experience (e.g., volunteer activities, internships)
2) Explain the need for ongoing education as a worker
3) Explain possible advancement patterns for jobs
4) Identify skills needed to enhance career progression
5) Utilize resources that can contribute to professional development (e.g., trade journals/periodicals, professional/trade associations, classes/seminars, trade shows, and mentors)
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Cluster Topic: Leadership and Teamwork

Cluster Knowledge and Skill Statement: Employs leadership and teamwork skills to foster working relationships in business management and administration

Performance Element: Implement teamwork techniques to accomplish goals.

Measurement Criteria:
1) Participate as a team member
2) Use consensus-building skills
3) Encourage team building
4) Motivate team members

Performance Element: Employ leadership skills to achieve workplace objectives.

Measurement Criteria:
1) Explain the concept of leadership
2) Determine personal vision
3) Demonstrate adaptability
4) Develop an achievement orientation
5) Lead change
6) Enlist others in working toward a shared vision
7) Coach others
8) Recognize/Reward others for their efforts and contributions

Performance Element: Implement organizational skills to facilitate others’ work efforts.

Measurement Criteria:
1) Assist employees with prioritizing work responsibilities
2) Delegate work to others
3) Coordinate efforts of cross-functional teams to achieve project/company goals
4) Manage collaborative efforts
5) Harmonize tasks, projects, and employees in the context of business priorities
Performance Element: Staff a business unit to satisfy work demands while adhering to budget constraints.

Measurement Criteria: 1) Determine hiring needs  
2) Screen job applications/resumes  
3) Interview job applicants  
4) Discuss employee compensation  
5) Select and hire new employees  
6) Conduct exit interviews  
7) Dismiss/Fire employees  
8) Maintain human resource records

Performance Element: Manage staff growth and development to increase productivity and employee satisfaction.

Measurement Criteria: 1) Orient new employees  
2) Orient new employees (management's role)  
3) Explain the role of training and human resource development  
4) Explain the nature of management/supervisory training  
5) Coach employees  
6) Recognize/Reward employees  
7) Maintain ongoing discussion of compensation issues  
8) Train staff  
9) Supervise staff  
10) Assess employee performance  
11) Ensure equitable opportunities for employees

Performance Element: Manage internal and external business relationships to foster positive interactions.

Measurement Criteria: 1) Maintain collaborative partnerships with colleagues  
2) Explain the impact of political relationships within an organization  
3) Explain the nature of organizational culture
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Cluster Topic: Problem Solving and Critical Thinking

Cluster Knowledge and Skill Statement: Applies problem-solving and critical-thinking skills to help grow the business and/or to resolve workplace conflict

Performance Element: Utilize critical-thinking skills to determine best options/outcomes.

Measurement Criteria:
1) Explain the need for innovation skills
2) Make decisions
3) Demonstrate problem-solving skills
4) Demonstrate appropriate creativity
5) Use time-management skills

Performance Element: Identify with others’ feelings, needs, and concerns to enhance interpersonal relations.

Measurement Criteria:
1) Show empathy for others
2) Exhibit cultural sensitivity

Performance Element: Manage stressful situations to minimize negative workplace interactions.

Measurement Criteria:
1) Explain the use of feedback for personal growth
3) Adjust to change
4) Adjust work practices to respond to client needs
5) Explain the nature of organizational change
6) Explain the nature of stress management

Performance Element: Deal with conflict to minimize disruptions in the workplace.

Measurement Criteria:
1) Demonstrate self-control
2) Use appropriate assertiveness
3) Resolve customer complaints
4) Use conflict-resolution skills
Performance Element: Resolve conflicts with/for customers to encourage repeat business.

Measurement Criteria: 1) Handle difficult customers  
2) Handle customer/client complaints

Performance Element: Resolve staff issues/problems to enhance productivity and improve employee relationships.

Measurement Criteria: 1) Handle employee complaints and grievances  
2) Explain the nature of remedial action
KNOWLEDGE & SKILL STRUCTURES

Cluster:  Business Management and Administration

Cluster Topic:  Information Technology Applications

Cluster Knowledge and Skill Statement:  Applies technological tools in business management and administration to expedite workflow

Performance Element:  Utilize information-technology tools to manage and perform work responsibilities.

Measurement Criteria:
1) Identify ways that technology impacts business
2) Discuss principles of computer systems
3) Explain the scope of data communications tools
4) Demonstrate basic e-mail functions
5) Demonstrate personal information management/productivity applications
6) Demonstrate basic web-search skills
7) Demonstrate personal digital assistant (PDA) skills
8) Demonstrate basic word processing skills
9) Demonstrate basic presentation applications
10) Demonstrate basic database applications
11) Demonstrate basic spreadsheet applications
12) Demonstrate collaborative/groupware applications
13) Use an integrated business software application package
14) Create and post basic web page
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Cluster Topic: Safety, Health, and Environmental

Cluster Knowledge and Skill Statement: Implements safety, health, and environmental controls to enhance productivity in business management and administration

Performance Element: Adhere to health and safety regulations to support a safe work environment.

Measurement Criteria: 1) Describe health and safety regulations in business 2) Report noncompliance with business health and safety regulations

Performance Element: Implement safety procedures to minimize loss.

Measurement Criteria: 1) Follow instructions for use of equipment, tools, and machinery 2) Follow safety precautions 3) Maintain a safe work environment 4) Explain procedures for handling accidents 5) Handle and report emergency situations

Performance Element: Determine needed safety policies/procedures to protect employees.

Measurement Criteria: 1) Identify potential safety issues 2) Establish safety policies and procedures

Performance Element: Implement security policies/procedures to minimize chance for loss.

Measurement Criteria: 1) Explain routine security precautions 2) Follow established security procedures/policies 3) Protect company information and intangibles

Performance Element: Develop policies/procedures to protect workplace security.

Measurement Criteria: 1) Identify potential security issues
2) Establish policies to protect company information and intangibles
3) Establish policies to maintain a non-hostile work environment
4) Establish policies and procedures to maintain physical security of the work environment
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Cluster Topic: Academic Foundations

Cluster Knowledge and Skill Statement: Solves mathematical problems to obtain information for decision making in business management and administration

Performance Element: Employ numbers and operations to understand and solve mathematical problems in business management and administration.

Measurement Criteria:
1) Recognize relationships among numbers.
2) Employ mathematical operations.
3) Perform computations successfully.
4) Predict reasonable estimations.

Performance Element: Apply algebraic skills to make business decisions.

Measurement Criteria:
1) Recognize patterns and mathematical relations.
2) Use algebraic symbols to represent, solve, and analyze mathematical problems.
3) Create mathematical models from real-life situations.
4) Represent changes in quantities mathematically.
5) Determine rate of change mathematically.
6) Interpret graphical and numerical data.

Performance Element: Employ measurement skills to make business decisions.

Measurement Criteria:
1) Recognize measurable attributes of objects.
2) Take measurements correctly.

Performance Element: Perform data analysis to make business decisions.

Measurement Criteria:
1) Formulate questions effectively.
2) Collect relevant data.
3) Organize useful data.
4) Answer questions appropriately.
5) Employ appropriate statistical methods in data analysis.
6) Develop and evaluate inferences and predictions.
7) Apply basic concepts of probability.

Performance Element: Implement problem-solving techniques to evaluate the accuracy of mathematical responses.

Measurement Criteria:
1) Identify problem-solving techniques.
2) Apply a variety of problem-solving strategies.
3) Adjust problem-solving strategies, when needed.

Cluster Knowledge and Skill Statement: Understands the economic principles and concepts fundamental to business operations

Performance Element: Understand fundamental economic concepts to obtain a foundation for employment in business.

Measurement Criteria:
1) Distinguish between economic goods and services
2) Explain the concept of economic resources
3) Describe the concepts of economics and economic activities
4) Determine economic utilities created by business activities
5) Explain the principles of supply and demand
6) Describe the functions of prices in markets

Performance Element: Understand the nature of business to show its contributions to society.

Measurement Criteria:
1) Explain the role of business in society
2) Describe types of business activities
3) Explain the organizational design of businesses

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4) Discuss the global environment in which businesses operate
5) Describe factors that affect the business environment
6) Explain how organizations adapt to today’s markets

Performance Element: Understand economic systems to be able to recognize the environments in which businesses function.

Measurement Criteria: 1) Explain the types of economic systems
2) Explain the concept of private enterprise
3) Identify factors affecting a business’s profit
4) Determine factors affecting business risk
5) Explain the concept of competition
6) Describe market structures

Performance Element: Acquire knowledge of the impact of government on business activities to make informed economic decisions.

Measurement Criteria: 1) Determine the relationship between government and business
2) Describe the nature of taxes
3) Discuss the nature of monetary policy
4) Discuss the supply and demand for money
5) Explain the role of the Federal Reserve System
6) Explain the concept of fiscal policies
7) Describe the effects of fiscal and monetary policies

Performance Element: Analyze cost/profit relationships to guide business decision-making.

Measurement Criteria: 1) Explain the concept of productivity
2) Analyze impact of specialization/division of labor on productivity
3) Explain the concept of organized labor and business
4) Explain the impact of the law of diminishing returns
5) Describe the concept of economies of scale

Performance Element: Understand economic indicators to recognize economic trends and conditions.

Measurement Criteria:
1) Describe the concept of price stability as an economic measure
2) Discuss the measure of consumer spending as an economic indicator
3) Discuss the impact of a nation’s unemployment rates
4) Explain the concept of Gross Domestic Product
5) Describe the economic impact of inflation on business
6) Explain unemployment and inflation tradeoffs
7) Explain the economic impact of interest-rate fluctuations
8) Determine the impact of business cycles on business activities

Performance Element: Determine global trade’s impact on business decision-making.

Measurement Criteria:
1) Explain the nature of global trade
2) Describe the determinants of exchange rates and their effects on the domestic economy
3) Discuss the impact of cultural and social environments on global trade
4) Explain labor issues associated with global trade

Cluster Knowledge and Skill Statement: Integrates sociological knowledge of group behavior to understand customer decision-making

Performance Element: Employ sociological knowledge to facilitate business management and administration activities.

Measurement Criteria:
1) Analyze and interpret complex societal issues, events, and problems.
2) Analyze researched information and statistics.
3) Reach reasoned conclusions.
4) Examine social beliefs, influences, and behavior.
5) Analyze group dynamics.
6) Assess human behavior.

Cluster Knowledge and Skill Statement: **Integrates psychological knowledge to understand customer motivation**

Performance Element: Apply psychological knowledge to facilitate business management and administration activities.

Measurement Criteria:

1) Recognize factors influencing perception.
2) Identify sources of attitude formation.
3) Assess methods used to evaluate attitudes.
4) Identify basic social and cultural strata.
5) Determine behavioral effects of social and cultural strata.
6) Analyze effects of others on individual behavior.
7) Predict likelihood of conformity and obedience.
8) Determine significance of aggression.
9) Recognize factors affecting personality.
10) Evaluate the nature of change over a lifetime.
11) Identify sources of stress.
12) Detail reactions to stress.
13) Employ strategies for dealing with stress.
14) Investigate factors affecting motivation.
15) Analyze cues to basic drives/motives.
16) Analyze the development of motives.
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Cluster Topic: Systems

Cluster Knowledge and Skill Statement: Understands the concepts, processes, and skills associated with identifying new ideas, opportunities, and methods and with creating or starting a new project or venture

Performance Element: Employ entrepreneurial discovery strategies to generate feasible ideas for business ventures.

Measurement Criteria:
1) Explain the need for entrepreneurial discovery
2) Discuss entrepreneurial discovery processes
3) Assess global trends and opportunities
4) Determine opportunities for venture creation
5) Assess opportunities for venture creation
6) Describe idea-generation methods
7) Generate venture ideas
8) Determine feasibility of venture ideas

Performance Element: Develop concept for new business venture to evaluate its success potential.

Measurement Criteria:
1) Describe entrepreneurial planning considerations
2) Explain tools used by entrepreneurs for venture planning
3) Assess start-up requirements
4) Assess risks associated with venture
5) Describe external resources useful to entrepreneurs during concept development
6) Assess the need to use external resources for concept development
7) Describe strategies to protect intellectual property
8) Use components of business plan to define venture idea
Performance Element: Determine needed resources for a new business venture to contribute to its start-up viability.

Measurement Criteria:

1) Describe processes used to acquire adequate financial resources for venture creation/start-up
2) Select sources to finance venture creation/start-up
3) Explain factors to consider in determining a venture’s human-resource needs
4) Explain considerations in making the decision to hire staff
5) Describe considerations in selecting capital resources
6) Identify capital resources needed for the venture
7) Assess the costs/benefits associated with resources

Performance Element: Actualize new business venture to generate profit and/or meet objectives.

Measurement Criteria:

1) Use external resources to supplement entrepreneur’s expertise
2) Explain the complexity of business operations
3) Evaluate risk-taking opportunities
4) Explain the need for business systems and procedures
5) Describe the use of operating procedures
6) Explain methods/processes for organizing workflow
7) Develop and/or provide product/service
8) Use creative problem solving in business activities/decisions
9) Explain the impact of resource productivity on venture success
10) Create processes for ongoing opportunity recognition
11) Develop plan to invest resources into improving current products or creating new ones
12) Adapt to changes in business environment
Performance Element: Select harvesting strategies to identify entrepreneur’s role in the business venture.

Measurement Criteria: 1) Explain the need for continuation planning  
2) Describe methods of venture harvesting  
3) Evaluate options for continued venture involvement  
4) Develop exit strategies

Cluster Knowledge and Skill Statement: Analyzes accounting systems to examine their contribution to the fiscal stability of businesses

Performance Element: Acquire a foundational knowledge of accounting to understand its nature and scope.

Measurement Criteria: 1) Explain the concept of accounting  
2) Explain the need for accounting standards (GAAP)  
3) Discuss the role of ethics in accounting  
4) Explain the use of technology in accounting  
5) Explain legal considerations for accounting

Performance Element: Implement accounting procedures to track money flow and to determine financial status.

Measurement Criteria: 1) Describe the nature of cash flow statements  
2) Prepare cash flow statements  
3) Explain the nature of balance sheets  
4) Describe the nature of income statements

Cluster Knowledge and Skill Statement: Understands tools, strategies, and systems used to maintain, monitor, control, and plan the use of financial resources

Performance Element: Acquire a foundational knowledge of finance to understand its nature and scope.

Measurement Criteria: 1) Explain the role of finance in business  
2) Discuss the role of ethics in finance  
3) Explain legal considerations for finance
Cluster Knowledge and Skill Statement: **Understands the tools, techniques, and systems that businesses use to plan, staff, lead, and organize its human resources**

**Performance Element:** Understand the role and function of human resources management to obtain a foundational knowledge of its nature and scope.

**Measurement Criteria:**
1) Discuss the nature of human resources management
2) Explain the role of ethics in human resources management
3) Describe the use of technology in human resources management

Cluster Knowledge and Skill Statement: **Understands the tools, techniques, and systems that businesses use to create, communicate, and deliver value to customers and to manage customer relationships in ways that benefit the organization and its stakeholders**

**Performance Element:** Understand marketing’s role and function in business to facilitate economic exchanges with customers.

**Measurement Criteria:**
1) Explain marketing and its importance in a global economy
2) Describe marketing functions and related activities

**Performance Element:** Acquire foundational knowledge of customer/client/business behavior to understand what motivates decision-making.

**Measurement Criteria:**
1) Explain customer/client/business buying behavior
2) Discuss actions employees can take to achieve the company’s desired results
3) Demonstrate connections between company actions and results (e.g., influencing consumer buying behavior, gaining market share, etc.)
Performance Element: Understand company’s unique selling proposition to recognize what sets the company apart from its competitors.

Measurement Criteria: 1) Identify company’s unique selling proposition
2) Identify internal and external service standards

Cluster Knowledge and Skill Statement: Understand the techniques and strategies used to foster positive, ongoing relationships with customers

Performance Element: Foster positive relationships with customers to enhance company image.

Measurement Criteria: 1) Explain the nature of positive customer relations
2) Demonstrate a customer-service mindset
3) Explain management’s role in customer relations

Performance Element: Reinforce company’s image to exhibit the company’s brand promise.

Measurement Criteria: 1) Identify company’s brand promise
2) Determine ways of reinforcing the company’s image through employee performance

Performance Element: Understand the nature of customer relationship management to show its contributions to a company.

Measurement Criteria: 1) Discuss the nature of customer relationship management
2) Explain the role of ethics in customer relationship management
3) Describe the use of technology in customer relationship management
Cluster Knowledge and Skill Statement: **Understands the processes and systems implemented to monitor, plan, and control the day-to-day activities required for continued business functioning**

**Performance Element:** Understand operation’s role and function in business to value its contribution to a company.

**Measurement Criteria:**
1) Explain the nature of operations
2) Discuss the role of ethics in operations
3) Describe the use of technology in operations

**Performance Element:** Implement purchasing activities to obtain business supplies and equipment.

**Measurement Criteria:**
1) Explain the nature and scope of purchasing
2) Place orders/reorders
3) Maintain inventory of supplies
4) Manage the bid process in purchasing
5) Select vendors
6) Evaluate vendor’s performance

**Performance Element:** Understand production’s role and function in business to recognize its need in an organization.

**Measurement Criteria:**
1) Explain the concept of production
2) Describe production activities

**Performance Element:** Implement quality-control processes to minimize errors and to expedite workflow.

**Measurement Criteria:**
1) Identify quality-control measures
2) Utilize quality control methods at work
3) Describe crucial elements of a quality culture
4) Describe the role of management in the achievement of quality
5) Establish efficient operating systems
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Cluster Topic: Technical Skills

Cluster Knowledge and Skill Statement: Understands tools and strategies used to access, process, maintain, evaluate, and disseminate information to assist business decision-making

Performance Element: Use information literacy skills to increase workplace efficiency and effectiveness.

Measurement Criteria: 1) Assess information needs 2) Obtain needed information efficiently 3) Evaluate quality and source of information 4) Apply information to accomplish a task 5) Store information for future use

Performance Element: Acquire a foundational knowledge of information management to understand its nature and scope.

Measurement Criteria: 1) Discuss the nature of information management 2) Explain the role of ethics in information management 3) Explain legal issues associated with information management

Performance Element: Maintain business records to facilitate business operations.

Measurement Criteria: 1) Describe the nature of business records 2) Maintain customer records

Performance Element: Acquire information to guide business decision-making.

Measurement Criteria: 1) Describe current business trends 2) Monitor internal records for business information 3) Conduct an environmental scan to obtain business information 4) Interpret statistical findings
Performance Element: Utilize project-management skills to improve workflow and minimize costs.

Measurement Criteria: 1) Explain the nature of project management
2) Identify resources needed for project
3) Develop project plan
4) Apply project-management tools to monitor project progress
5) Evaluate project results

Cluster Knowledge and Skill Statement: **Maintains, controls, and plans the use of financial resources to protect solvency**

Performance Element: Understand the fundamental principles of money needed to make financial exchanges.

Measurement Criteria: 1) Explain forms of financial exchange (cash, credit, debit, electronic funds transfer, etc.)
2) Identify types of currency (paper money, coins, banknotes, government bonds, treasury notes, etc.)
3) Describe functions of money (medium of exchange, unit of measure, store of value)
4) Describe sources of income (wages/salaries, interest, rent, dividends, transfer payments, etc.)
5) Explain the time value of money
6) Explain the purposes and importance of credit
7) Explain legal responsibilities associated with financial exchanges

Performance Element: Analyze financial needs and goals to determine financial requirements.

Measurement Criteria: 1) Explain the nature of financial needs (e.g., college, retirement, wills, insurance, etc.)
2) Set financial goals
3) Develop personal budget
Performance Element: Manage personal finances to achieve financial goals.
Measurement Criteria: 1) Explain the nature of tax liabilities
2) Interpret a pay stub
3) Read and reconcile bank statements
4) Maintain financial records
5) Demonstrate the wise use of credit
6) Validate credit history
7) Protect against identity theft
8) Prepare personal income tax forms (i.e., 1040 EZ)

Performance Element: Understand the use of financial-services providers to aid in financial-goal achievement.
Measurement Criteria: 1) Describe types of financial-services providers
2) Discuss considerations in selecting a financial-services provider

Performance Element: Use investment strategies to ensure financial well-being.
Measurement Criteria: 1) Explain types of investments
2) Explain the nature of capital investment
3) Establish investment goals and objectives

Performance Element: Identify potential business threats and opportunities to protect a business’s financial well-being.
Measurement Criteria: 1) Describe the concept of insurance
2) Obtain insurance coverage
3) Settle insurance losses
4) Identify speculative business risks
5) Explain the nature of risk management

Performance Element: Implement financial skills to obtain business credit and to control its use.
Measurement Criteria: 1) Explain the purposes and importance of obtaining business credit
2) Analyze critical banking relationships
3) Make critical decisions regarding acceptance of bank cards
Performance Element: Determine financing needed for business operations

Measurement Criteria: 1) Describe the nature of budgets
2) Explain the nature of operating budgets
3) Describe the nature of cost/benefit analysis
4) Determine relationships among total revenue, marginal revenue, output, and profit
5) Develop company's/department’s budget
6) Forecast sales
7) Calculate financial ratios
8) Interpret financial ratios

Cluster Knowledge and Skill Statement: Understands tools, techniques, and strategies that affect a business’s ability to plan, control, and organize an organization/department

Performance Element: Manage financial resources to ensure solvency.

Measurement Criteria: 1) Describe the nature of budgets
2) Explain the nature of operating budgets
3) Describe the nature of cost/benefit analysis
4) Determine relationships among total revenue, marginal revenue, output, and profit
5) Develop company's/department’s budget
6) Forecast sales
7) Calculate financial ratios
8) Interpret financial ratios

Performance Element: Recognize management’s role to understand its contribution to business success.

Measurement Criteria: 1) Explain the concept of management
2) Explain the nature of managerial ethics

Performance Element: Utilize planning tools to guide organization’s/department’s activities.

Measurement Criteria: 1) Explain the nature of business plans
2) Develop company goals/objectives
3) Define business mission
4) Conduct an organizational SWOT
5) Explain external planning considerations
6) Identify and benchmark key performance indicators (e.g., dashboards, scorecards, etc.)
7) Develop action plans
8) Develop business plan

Performance Element: Control an organization’s/department’s activities to encourage growth and development.

Measurement Criteria: 1) Describe the nature of managerial control (control process, types of control, what is controlled)
2) Analyze operating results in relation to budget/industry
3) Track performance of business plan

Cluster Knowledge and Skill Statement: Understands the processes used to monitor, plan, and control the day-to-day activities required for continued business functioning

Performance Element: Implement expense-control strategies to enhance a business’s financial well-being.

Measurement Criteria: 1) Explain the nature of overhead/operating costs
2) Explain employee's role in expense control
3) Control use of supplies
4) Conduct breakeven analysis
5) Negotiate service and maintenance contracts
6) Negotiate lease or purchase of facility
7) Develop expense control plans
8) Use budgets to control operations

Performance Element: Maintain property and equipment to facilitate ongoing business activities.

Measurement Criteria: 1) Identify routine activities for maintaining business facilities and equipment
2) Plan maintenance program
Cluster Knowledge and Skill Statement: **Understands the techniques and strategies used to foster positive, ongoing relationships with customer**

Performance Element: Support sales activities to encourage repeat business.

Measurement Criteria:
1) Process customer orders  
2) Process customer returns

Performance Element: Utilize technology to facilitate customer relationship management.

Measurement Criteria:
1) Explain the use of databases in customer relationship management (CRM)  
2) Use CRM technology

Cluster Knowledge and Skill Statement: **Understands the systems, strategies, and techniques used to collect, organize, analyze, and share information known in an organization**

Performance Element: Acquire a foundational understanding of knowledge management to understand its nature and scope.

Measurement Criteria:
1) Explain the nature of knowledge management  
2) Discuss the role of ethics in knowledge management  
3) Explain the use of technology in knowledge management  
4) Explain legal considerations for knowledge management

Performance Element: Use knowledge management strategies to improve the performance and competitive advantage of an organization.

Measurement Criteria:
1) Identify techniques that can be used to capture and transfer knowledge in an organization  
2) Determine factors causing loss of organizational knowledge  
3) Implement knowledge-management strategies
Cluster Knowledge and Skill Statement: **Understands tools, techniques, and systems that are used to plan, implement, monitor, and evaluate business projects**

Performance Element: Utilize project management skills to start, run, and end projects.

Measurement Criteria:
1) Explain the nature of a project life cycle
2) Explain standard project-management processes
3) Coordinate schedules and activities
4) Track project progress and results

Cluster Knowledge and Skill Statement: **Understands the need for standards and the strategies and techniques used to implement, monitor, and evaluate them**

Performance Element: Understand the role and function of quality management to obtain a foundational knowledge of its nature and scope.

Measurement Criteria:
1) Explain the nature of quality management
2) Describe the nature of quality management frameworks (e.g., Six Sigma, ITIL, CMMI)
3) Discuss the need for continuous improvement of the quality process

Cluster Knowledge and Skill Statement: **Understands risk-management strategies and techniques used to minimize business loss**

Performance Element: Acquire a foundational understanding of risk management to demonstrate knowledge of its nature and scope.

Measurement Criteria:
1) Explain the role of ethics in risk management
2) Describe the use of technology in risk management
3) Discuss legal considerations affecting risk management
**KNOWLEDGE & SKILL STRUCTURES**

Cluster: Business Management and Administration

Pathway: Administrative Services

Pathway Topic: Communication Skills

Knowledge and Skill Statement: **Understands the concepts, strategies, and systems used in administrative services to obtain and convey ideas and information**

<table>
<thead>
<tr>
<th>Performance Element:</th>
<th>Facilitate internal/external office communications to support work activities.</th>
</tr>
</thead>
</table>
| Measurement Criteria:| 1) Greet and direct visitors  
2) Relay messages  
3) Field telephone calls  
4) Screen telephone calls |
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Administrative Services

Pathway Topic: Emotional Intelligence

Knowledge and Skill Statement: Understands techniques, strategies, and systems used in administrative services to foster self-understanding and enhance relationships with others

Performance Element: Apply ethics to demonstrate trustworthiness.

Measurement Criteria:
1) Take responsibility for decisions and actions
2) Exercise confidentiality
3) Manage commitments in a timely manner

Performance Element: Use communication skills to influence others.

Measurement Criteria:
1) Offer constructive criticism
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration
Pathway: Administrative Services
Pathway Topic: Human Resources Management

Knowledge and Skill Statement: Understands the tools, techniques, and systems that administrative service supervisors use to plan, staff, lead, and organize their human resources

Performance Element: Assist with staff growth and development to increase productivity and employee satisfaction

Measurement Criteria: 1) Train staff on system usage
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration
Pathway: Administrative Services
Pathway Topic: Information Management

Knowledge and Skill Statement: **Understands the tools, strategies, and systems administrative service employees need to access, process, maintain, evaluate, and disseminate information to support managers**

Performance Element: Perform scheduling functions to facilitate on-time, prompt completion of work activities.

Measurement Criteria:
1) Create calendar/schedule
2) Maintain appointment calendar
3) Verify appointments
4) Make travel arrangements
5) Make meeting arrangements

Performance Element: Manage business records to maintain needed documentation.

Measurement Criteria:
1) Process customer orders
2) Route orders
3) File records electronically/manually
4) Maintain files
5) Collect documentation needed to compile reports
6) Track shipping practices
7) Set up filing system appropriate for media/documents being stored
8) Control incoming/outgoing documentation process
9) Develop retention system appropriate for media/documents being stored
10) Archive information according to retention procedures
11) Audit records periodically

Performance Element: Prepare documentation of business activities to communicate with internal/external clients.

Measurement Criteria:
1) Proofread documents
2) Prepare reports
3) Prepare financial data
4) Prepare RFPs (Request for Proposal)

Performance Element: Utilize information technology tools to manage and perform work responsibilities.

Measurement Criteria:
1) Demonstrate advanced web-search skills
2) Demonstrate advanced word-processing skills
3) Demonstrate advanced presentation applications
4) Demonstrate advanced database applications
5) Mine databases for information
6) Demonstrate advanced spreadsheet applications
7) Create a web page for business applications
8) Capture text using OCR (optical character reader) software
9) Use voice recognition technology to prepare documents
10) Utilize project-management software
11) Utilize imaging software
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Administrative Services

Pathway Topic: Operations

Knowledge and Skill Statement: Understands the processes and systems implemented to monitor, plan, and control the day-to-day administrative activities required for continued business functioning

Performance Element: Utilize office equipment to accomplish job assignments.

Measurement Criteria:
1) Operate calculator
2) Operate copier
3) Operate printer
4) Operate fax machines
5) Operate postage meter
6) Operate scanner

Performance Element: Troubleshoot problems with office equipment to make repairs and/or to obtain technical support.

Measurement Criteria:
1) Isolate and identify source of technical problem
2) Follow manufacturer’s written procedures to fix technical problem
3) Obtain technical support services

Performance Element: Abide by risk-management policies and procedures for technology to minimize loss.

Measurement Criteria:
1) Adhere to technology safety and security policies (e.g., acceptable use policy, webpage policies)
2) Apply ergonomic techniques to technology tasks
3) Adhere to laws pertaining to computer crime, fraud, and abuse
4) Follow procedures used to restart and recover from situations (e.g., system failure, virus infection)
5) Follow policies to prevent loss of data integrity
6) Adhere to organization’s policies for technology use

Performance Element: Maintain work flow to enhance productivity.

Measurement Criteria:
1) Organize and prioritize work
2) Complete assigned tasks in a timely manner
3) Coordinate work with that of team members
4) Assist with overflow work
5) Coordinate submission of proposals

Performance Element: Utilize project management skills to start, run, and end projects.

Measurement Criteria:
1) Coordinate schedules and activities
2) Plan meetings

Performance Element: Implement purchasing activities to obtain business supplies, equipment, and services.

Measurement Criteria:
1) Maintain vendor/supplier relationships
2) Conduct vendor/supplier search
3) Negotiate terms with vendors
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Administrative Services

Pathway Topic: Professional Development

Knowledge and Skill Statement: Understands concepts, tools, and strategies used to explore, obtain, and develop in an administrative services career

Performance Element: Acquire self-development skills to enhance relationships and improve efficiency in the work environment.

Measurement Criteria: 1) Explain professional responsibilities in administrative services
2) Balance personal and professional responsibilities

Performance Element: Understand and follow company rules and regulations to maintain employment.

Measurement Criteria: 1) Adhere to company policies
2) Follow rules of conduct
3) Follow chain of command

Performance Element: Achieve organizational goals to contribute to company growth.

Measurement Criteria: 1) Determine the nature of organizational goals
2) Ascertain employee’s role in meeting organizational goals
3) Establish performance standards to meet organizational goals
4) Monitor progress in achieving organizational goals

Performance Element: Participate in career planning to enhance job success potential.

Measurement Criteria: 1) Explain career opportunities in administrative services
2) Describe certifications in administrative services
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Business Information Management

Pathway Topic: Business Law

Knowledge and Skill Statement: Understands business’s responsibility to know, abide by, and enforce laws and regulations that affect business operations and transactions

Performance Element: Apply knowledge of business contracts to establish business relationships.

Measurement Criteria: 1) Discuss the nature of contract suspensions 2) Explain the nature of contract terminations 3) Issue a business contract
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Business Information Management

Pathway Topic: Financial Analysis

Knowledge and Skill Statement: Understands tools, strategies, and systems used to maintain, monitor, control, and plan the use of financial resources

Performance Element: Utilize cost accounting methods to guide business decisions pertaining to quality.

Measurement Criteria:
1) Discuss the implications of quality costs
2) Calculate quality costs (e.g. prevention, appraisal, failure)

Performance Element: Manage risk to protect a business’s well-being.

Measurement Criteria:
1) Explain the impact of risk on business
2) Discuss the nature of credit risk management
3) Discuss reasons to integrate risk management into business operations
4) Discuss the nature of enterprise risk management (ERM)
5) Integrate risk management into business operations

Performance Element: Implement suitable internal accounting controls to ensure the proper recording of financial transactions.

Measurement Criteria:
1) Explain the purpose of internal accounting controls
2) Determine the components of internal accounting control procedures for a business
3) Maintain internal accounting controls
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Business Information Management

Pathway Topic: Information Management

Knowledge and Skill Statement: Understands tools, strategies, and systems needed to access, process, maintain, evaluate, and disseminate information to assist business decision-making

Performance Element: Facilitate computer system operations to enhance usability.

Measurement Criteria:
1) Explain issues involved in designing systems for different environments
2) Explain usability engineering methods
3) Support and maintain a multimedia website

Performance Element: Create and access databases to acquire information for business decision-making.

Measurement Criteria:
1) Explain the principles of data analysis
2) Explain the nature of tools that can be used to access information in the database system
3) Access information in the database system
4) Build data in a data warehouse
5) Create a meaningful data set
6) Manipulate data in the database management system
7) Analyze company’s data requirements
8) Design a database to meet business requirements
9) Identify database trends

Performance Element: Apply data mining methods to acquire pertinent information for business decision-making.

Measurement Criteria:
1) Discuss the nature of data mining
2) Describe data mining tools and techniques
3) Discuss the importance of ethics in data mining
4) Demonstrate basic data mining techniques
5) Interpret data mining findings

Performance Element: Utilize computer's operating system to manage and perform work responsibilities.

Measurement Criteria: 1) Move files in the computer operating system
2) Create directories

Performance Element: Utilize technology to support business strategies and operations.

Measurement Criteria: 1) Explain methods used to develop the technological infrastructure
2) Identify the management information requirements of an organization
3) Discuss the nature of enterprise architecture
4) Align technology with business needs
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Business Information Management

Pathway Topic: Operations

Knowledge and Skill Statement: Understands the processes and systems implemented to monitor, plan, and control the day-to-day activities required for continued business functioning

Performance Element: Utilize project management processes to plan a business project.

Measurement Criteria:
1) Initiate a business project
2) Design a business project

Performance Element: Utilize project management processes to conduct a business project.

Measurement Criteria:
1) Implement a project
2) Manage project team
3) Monitor a business project
4) Minimize a business project’s errors
5) Conclude a business project

Performance Element: Manage purchasing activities to obtain the best service/product for the project at the least cost.

Measurement Criteria:
1) Maintain vendor/supplier relationships
2) Negotiate terms with vendors
3) Establish bid specifications

Performance Element: Develop an understanding of business analysis to improve business functions and activities.

Measurement Criteria:
1) Discuss the nature of business analysis
2) Discuss the connection between business analysis and business process management
3) Explain types of requirements (e.g. business, system, functional, nonfunctional)
<table>
<thead>
<tr>
<th>Performance Element</th>
<th>Develop requirements and solutions to improve business processes, performance, or people.</th>
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</thead>
<tbody>
<tr>
<td>Measurement Criteria</td>
<td>1) Plan the requirements development process</td>
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<td>2) Determine requirements stakeholders</td>
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<td>3) Elicit requirements from stakeholders</td>
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<td>4) Validate requirements</td>
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<td>5) Ensure the usability of a proposed solution</td>
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</table>

<table>
<thead>
<tr>
<th>Performance Element</th>
<th>Manage quality-control processes to minimize errors and to improve processes.</th>
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</thead>
<tbody>
<tr>
<td>Measurement Criteria</td>
<td>1) Test product/service for quality</td>
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<td>2) Determine reliability factors impacting the quality of a product/service</td>
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<tr>
<td></td>
<td>3) Develop continuous-improvement strategies</td>
</tr>
<tr>
<td></td>
<td>4) Develop a plan/program for quality achievement</td>
</tr>
</tbody>
</table>
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Business Information Management

Pathway Topic: Professional Development

Knowledge and Skill Statement: Understands concepts, tools, and strategies used to explore, obtain, and develop in a business information management career

Performance Element: Acquire self-development skills to enhance relationships and improve efficiency in the work environment.

Measurement Criteria:
1) Explain professional responsibilities in business information management
2) Discuss the role and responsibilities of project managers
3) Describe the role and responsibilities of business analysts

Performance Element: Participate in career planning to enhance job success potential.

Measurement Criteria:
1) Explain career opportunities in business information management
2) Describe certifications in business information management
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Business Information Management

Pathway Topic: Strategic Management

Knowledge and Skill Statement: Understands tools, techniques, and systems that affect a business’s ability to plan, control, and organize an organization/department

Performance Element: Coordinate information management and business management to aid in business planning.

Measurement Criteria:
1) Explain the strategic role of information systems/information communication technology within an organization
2) Determine risks and rewards of developing a strategic role for information systems/information communication technology
3) Integrate information systems planning with business planning
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: General Management

Pathway Topic: Business Law

Knowledge and Skill Statement: Understands business’s responsibility to know, abide by, and enforce laws and regulations that affect business operations and transactions

Performance Element: Adhere to regulations for business expansion to meet government requirements and industry standards.

Measurement Criteria: 1) Follow domestic laws governing business expansion 2) Follow laws governing global expansion

Performance Element: Understand government/legal activities that affect global trade to make business decisions.

Measurement Criteria: 1) Describe customs regulations 2) Comply with export licensing regulations 3) Obtain releases and clearances to export products 4) Explain the nature of legal recourse in resolving global business disputes
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: General Management

Pathway Topic: Communication Skills

Knowledge and Skill Statement: Understands the concepts, strategies, and systems used by management to obtain and convey ideas and information

Performance Element: Write internal and external business correspondence to convey and obtain information effectively.

Measurement Criteria: 1) Write analytical reports (i.e., reports that examine a problem/issue and recommend an action)
2) Write research reports
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: General Management

Pathway Topic: Economics

Knowledge and Skill Statement: Understands the economic principles and concepts fundamental to business operations

Performance Element: Recognize global trade’s impact on business activities to guide business decision-making.

Measurement Criteria:

1) Discuss the impact of globalization on business
2) Explain cultural considerations that impact global business relations
3) Describe the impact of electronic communication tools (e.g., Internet, video- and computer-conferencing, webcasts, email) on global business activities
4) Explain the impact of major trade alliances on business activities
5) Describe the impact of the political environment on world trade
6) Explain the impact of geography on world trade
7) Describe the impact of a country’s history on world trade
8) Explain the impact of a country’s economic development on world trade
9) Discuss the potential impact of emerging economies on business activities
KNOWLEDGE & SKILL STRUCTURES

Cluster:  Business Management and Administration

Pathway:  General Management

Pathway Topic:  Emotional Intelligence

Knowledge and Skill Statement:  Understands techniques, strategies, and systems used by management to foster self-understanding and enhance relationships with others

Performance Element:  Apply ethics to demonstrate trustworthiness to staff.

Measurement Criteria:  
1) Use ethics in staff supervision
2) Explain the nature of managerial ethics

Performance Element:  Manage internal and external business relationships to foster positive interactions.

Measurement Criteria:  
1) Explain the impact of business customs and practices on global trade
2) Describe the nature of business customs and practices in the North American market
3) Explain the nature of business customs and practices in Europe
4) Explain the nature of business customs and practices in Latin America
5) Describe the nature of business customs and practices in the Pacific Rim
6) Discuss the nature of business customs and practices in the Middle East
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: General Management

Pathway Topic: Financial Analysis

Knowledge and Skill Statement: Understands tools, strategies, and systems managers use to maintain, monitor, control, and plan the use of financial resources

Performance Element: Manage business risks to protect a business’s financial well-being.

Measurement Criteria:
1) Identify a business’s risks
2) Assess business risks
3) Assess task risks
4) Assess accounting risks
5) Assess legal risks
6) Evaluate speculative business risks
7) Assess business’s potential to expand into new markets
8) Select risk-management strategies
9) Develop risk-management plan
10) Evaluate risk-management plan

Performance Element: Manage financial resources to ensure solvency.

Measurement Criteria:
1) Interpret cash-flow statements
2) Monitor business’s profitability
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: General Management

Pathway Topic: Operations

Knowledge and Skill Statement: Understands the processes and systems that managers implement to monitor, plan, and control the day-to-day business activities required for continued business functioning

Performance Element: Manage purchasing activities to obtain the best service/product at the least cost.

Measurement Criteria: 1) Maintain vendor/supplier relationships 2) Negotiate terms with vendors 3) Establish bid specifications

Performance Element: Manage quality-control processes to minimize errors and to expedite workflow.

Measurement Criteria: 1) Explain the nature of quality management 2) Discuss the need for continuous improvement of the quality process 3) Develop continuous-improvement strategies 4) Develop a plan/program for quality achievement
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: General Management

Pathway Topic: Professional Development

Knowledge and Skill Statement: Understands concepts, tools, and strategies used to explore, obtain, and develop in a management career

Performance Element: Explore professional development opportunities to enhance management skills.

Measurement Criteria: 1) Identify continuing education courses or programs available to enhance management skills

2) Describe certifications for management professionals (e.g., American Management Association [AMA], American National Standards Institute [ANSI])

3) Identify professional association opportunities for management professionals (e.g., educational opportunities, networking, conferences, newsletters, publications)

Performance Element: Adhere to a professional code of ethics to guide business decisions.

Measurement Criteria: 1) Discuss factors to consider in developing a managerial code of ethics

2) Utilize an established professional code of ethics
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration
Pathway: General Management
Pathway Topic: Strategic Management

Knowledge and Skill Statement: Understands tools, techniques, and systems that affect a manager’s ability to plan, control, and organize

Performance Element: Recognize management’s role to understand its contribution to business success.

Measurement Criteria: 1) Describe factors that influence management
2) Discuss the nature of global management
3) Explain management theories and their applications

Performance Element: Plan organization’s/department’s activities to guide and support decision-making and to ensure that staff focuses on the right priorities.

Measurement Criteria: 1) Describe the strategic planning process within an organization
2) Identify and set benchmarks for key performance indicators
3) Develop strategies for achieving company vision
4) Determine alternative actions to take when goals are not being met
5) Evaluate opportunities for potential company changes
6) Develop processes that can be used to improve business results
7) Analyze exit plan options
8) Develop company vision
9) Determine business’s overall global strategy
10) Develop company’s management plan
Performance Element: Design organizational structure to facilitate business activities.

Measurement Criteria:
1) Describe organizational structures for managing foreign business activities
2) Develop an organizational plan for human resources
3) Develop an organizational strategy for foreign businesses

Performance Element: Determine staffing needs to minimize costs while maximizing business contribution.

Measurement Criteria:
1) Describe the nature of human-resources planning
2) Explain approaches to the identification of human resources in foreign markets
3) Determine causes of staff turnover

Performance Element: Control organization’s/department’s activities to monitor business activities and to make business decisions.

Measurement Criteria:
1) Discuss the importance of the coordinating/controlling role in the business environment
2) Evaluate individual department’s contribution to organizational effectiveness
3) Apply benchmarking techniques
4) Interpret internal information for strategic planning (e.g., financial/accounting, marketing, operations, human resources, information technology, and individual employee data)
5) Assess company’s strategic-planning processes
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Human Resources Management

Pathway Topic: Business Law

Knowledge and Skill Statement: Understands business’s responsibility to know, abide by, and enforce laws and regulations that affect business operations and transactions

Performance Element: Implement human-resources laws and regulations to ensure equitable treatment of employees and to meet government requirements.

Measurement Criteria: 1) Explain unfair labor practices  
2) Comply with compensation and benefit laws  
3) Determine human resources management’s legal responsibility in maintaining labor relations  
4) Participate in collective-bargaining process
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration
Pathway: Human Resources Management
Pathway Topic: Communication Skills

Knowledge and Skill Statement: Understands the concepts, strategies, and systems used by management to obtain and convey ideas and information

Performance Element: Communicate with staff to clarify workplace expectations and benefits.

Measurement Criteria:
1) Maintain confidentiality in dealing with personnel
2) Describe elements of a human resources management’s communications program
3) Communicate diversity strategies
4) Communicate compensation and benefits plan and policies to workforce
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Human Resources Management

Pathway Topic: Emotional Intelligence

Knowledge and Skill Statement: Understands techniques, strategies, and systems used by human resources management to foster self-understanding and enhance relationships with others

Performance Element: Use communication skills to influence others.

Measurement Criteria: 1) Negotiate benefit plan administration and improvements (e.g., reduced costs, better benefits) with carriers

Performance Element: Manage internal and external business relationships to influence organizational decision-making.

Measurement Criteria: 1) Establish strategic relationships with individuals/teams in the business
2) Establish alliances with key individuals and groups to share best-practices
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Human Resources Management

Pathway Topic: Financial Analysis

Knowledge and Skill Statement: Understands tools, strategies, and systems managers use to maintain, monitor, control, and plan the use of financial resources

Performance Element: Manage financial resources to maintain and evaluate human-resources expenses.

Measurement Criteria:
1) Prepare and maintain human-resources development budget
2) Evaluate cost of a human-resources development program
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Human Resources Management

Pathway Topic: Human Resources Management

Knowledge and Skill Statement: Understands the tools techniques, and systems that businesses use to plan, staff, lead, and organize its human resources

Performance Element: Understand human resources management models to demonstrate knowledge of their nature and scope.

Measurement Criteria: 1) Explain human resources management functions
                   2) Describe phases of human resources management
                   3) Discuss factors that impact human resources management (e.g., availability of qualified employees, alternative staffing methods, employment laws/regulations, company policies/procedures, compensation and benefit programs, staff diversity, etc.)

Performance Element: Plan talent-acquisition activities to guide human resources management decision-making.

Measurement Criteria: 1) Describe planning techniques used in the hiring process (e.g., succession planning, forecasting, etc.)
                   2) Evaluate the use of alternative staffing methods (e.g., outsourcing, telecommuting, etc.)
                   3) Assess availability of qualified applicants
                   4) Classify jobs
                   5) Establish employee-selection procedures
                   6) Develop strategies to market the organization to potential employees
                   7) Develop a staffing plan
Performance Element: Implement talent-acquisition activities to obtain qualified staff.

Measurement Criteria:
1) Administer and interpret employee selection tests
2) Assess employees’ potential for growth and development in the organization
3) Make job offer
4) Explain contingency factors affecting job offer (e.g., background checks, drug tests, physical results, etc.)
5) Evaluate the effectiveness of recruitment sources

Performance Element: Control talent-acquisition activities to improve efficiencies of human resources selection.

Measurement Criteria:
1) Use staffing metrics to assess effectiveness of hiring decisions (e.g., cost benefit analysis, costs-per-hire, selection ratios, adverse impact, etc.)
2) Develop hiring policies and procedures

Performance Element: Conduct on-boarding activities to facilitate employee start-up.

Measurement Criteria:
1) Perform post-employment offer activities
2) Explain the use of employment contracts
3) Explain standard relocation practices
4) Assist with employee relocation
5) Describe expatriation and repatriation issues and practices
6) Evaluate effectiveness of new-employee orientation
7) Assess effectiveness of training

Performance Element: Determine employee-development needs to foster staff’s growth and professional development.

Measurement Criteria:
1) Assess employee skills
2) Conduct task/process analysis
3) Assess company’s learning needs
Performance Element: Administer human-resources development activities.

Measurement Criteria:
1) Write training activities
2) Select subject-matter experts for employee-development activities
3) Conduct gap and/or needs analysis to identify human-resources development needs
4) Determine issues impacting human-resources development (e.g., organizational culture and policies, societal norms, etc.)
5) Apply human-resources development theories
6) Implement employee-development program
7) Develop training program
8) Assess human-resources development program effectiveness

Performance Element: Control human resources management activities to maintain workforce standards.

Measurement Criteria:
1) Assist with establishment of work rules
2) Implement informal performance appraisals
3) Assist supervisors with performance appraisal tools
4) Develop written performance-management procedures
5) Develop human-resources policy/procedure manual

Performance Element: Build employer-employee relationships to foster productivity.

Measurement Criteria:
1) Describe ways that businesses build positive employer-employee relationships
2) Assess effectiveness of employee-relations activities
3) Develop employee-relations programs
<table>
<thead>
<tr>
<th>Performance Element</th>
<th>Resolve staff issues/problems to enhance productivity and improve employee relationships.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement Criteria</td>
<td>1) Explain labor-relations issues&lt;br&gt;2) Describe out-placement procedures and activities used in layoffs&lt;br&gt;3) Document employee issues&lt;br&gt;4) Discipline employees&lt;br&gt;5) Participate in dispute resolution&lt;br&gt;6) Determine the strategic importance of employee exit&lt;br&gt;7) Adhere to employment-at-will regulations&lt;br&gt;8) Release staff due to layoffs</td>
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<table>
<thead>
<tr>
<th>Performance Element</th>
<th>Select compensation system to match management’s goals and attract employees.</th>
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<tbody>
<tr>
<td>Measurement Criteria</td>
<td>1) Explain payroll functions&lt;br&gt;2) Select a payroll system&lt;br&gt;3) Explain the components of a compensation system&lt;br&gt;4) Determine components of compensation system&lt;br&gt;5) Discuss the nature of executive compensation&lt;br&gt;6) Identify pay structures&lt;br&gt;7) Determine pay grade of job</td>
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<thead>
<tr>
<th>Performance Element</th>
<th>Analyze compensation functions to meet employee expectations and to remain competitive with other employers.</th>
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</thead>
<tbody>
<tr>
<td>Measurement Criteria</td>
<td>1) Identify emerging compensation issues&lt;br&gt;2) Analyze pay rates&lt;br&gt;3) Evaluate compensation policies and procedures</td>
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<thead>
<tr>
<th>Performance Element</th>
<th>Identify employee benefit options to attract and keep qualified employees.</th>
</tr>
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<tbody>
<tr>
<td>Measurement Criteria</td>
<td>1) Explain the nature of benefit plans (e.g., health insurance, life insurance, retirement plans, educational assistance, health club, etc.)</td>
</tr>
</tbody>
</table>
2) Explain the nature of retirement plans

Performance Element: Select benefit options to offer employees.

Measurement Criteria:
1) Conduct benefits need assessment
2) Design a retirement plan
3) Establish a benefits plan

Performance Element: Analyze benefit plans to maximize employee satisfaction while minimizing human-resources costs.

Measurement Criteria:
1) Explain methods that can be used to analyze benefit plans
2) Evaluate benefits plan

Performance Element: Select and analyze employee fitness and wellness program to facilitate employee well-being.

Measurement Criteria:
1) Explain types of fitness/wellness programs offered by businesses
2) Assess company’s employee fitness/wellness program

Performance Element: Develop and assess company’s health and safety programs to ensure compliance and protect employees.

Measurement Criteria:
1) Implement workplace injury/occupational illness procedures
2) Evaluate effectiveness of company’s injury/occupational illness prevention programs
3) Set up company’s injury/occupational illness prevention programs

Performance Element: Contribute to organizational development to change the beliefs, attitudes, values, and structure of organizations so that they can better adapt to new technologies, markets, and challenges.

Measurement Criteria:
1) Explain the nature of organizational development
2) Apply organizational-development theories
3) Evaluate human resources management’s contribution to organizational effectiveness
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration
Pathway: Human Resources Management
Pathway Topic: Information Management

Knowledge and Skill Statement: Understands tools, strategies, and systems human resources management needs to access, process, maintain, evaluate, and disseminate information to support managers

Performance Element: Utilize a human resource information system to increase organizational efficiency.

Measurement Criteria:
1) Explain the nature of a human resource information system (HRIS)
2) Capture and store data in a human resource information system (HRIS)
3) Mine data in human resource information system
4) Identify trends in human resource information systems (HRIS)
5) Institute policies/procedures to protect the privacy of human-resources information
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Human Resources Management

Pathway Topic: Marketing

Knowledge and Skill Statement: Understands the tools, techniques, and systems that businesses use to create, communicate, and deliver value to customers and to manage customer relationships in ways that benefit the organization and its stakeholders

Performance Element: Understand company’s unique selling proposition to recognize what sets the company apart from its competitors.

Measurement Criteria: 1) Develop strategies to market the organization to potential employees
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Human Resources Management

Pathway Topic: Operations

Knowledge and Skill Statement: Understands the processes and systems that human resources management implements to monitor, plan, and control the day-to-day business activities required for continued business functioning

Performance Element: Understand health and safety issues to support a safe work environment.

Measurement Criteria:
1) Describe general health and safety practices monitored and assessed by human resources management
2) Discuss the nature of incident and emergency response plans
3) Describe the nature of employee-assistance programs
4) Explain the nature of employee fitness/wellness programs
5) Discuss human resources management issues resulting from employee’s drug use and dependency

Performance Element: Troubleshoot health and safety problems to foster a safe work environment.

Measurement Criteria:
1) Identify potential workplace violence conditions
2) Protect business’s security when terminating employees
3) Implement workplace injury/occupational illness procedures (e.g., worker’s compensation, OSHA)
4) Ensure compliance with all applicable workplace health and safety laws and regulations
5) Facilitate investigation procedures of workplace safety, health, and security enforcement agencies
Performance Element: Develop and analyze human-resources programs, practices, and services that promote the physical and mental well-being of individuals in the workplace to protect individuals and the workplace.

Measurement Criteria:

1) Recommend an emergency response and business recovery plan
2) Recommend an incidence response plan
3) Evaluate incident and emergency response plans (e.g., natural disasters, workplace safety threats, evacuations, etc.)
4) Recommend a security plan for a business
5) Evaluate security plans to protect the company from liability
6) Develop/select injury/occupational illness prevention programs
7) Develop/select safety training and incentive programs
8) Set up an employee-assistance program
9) Assess employee-wellness programs
10) Evaluate effectiveness of safety training and incentive programs
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Human Resources Management

Pathway Topic: Professional Development

Knowledge and Skill Statement: Understands concepts, tools, and strategies used to explore, obtain, and develop in a human resources management career

Performance Element: Participate in career planning to enhance job success potential.

Measurement Criteria:
1) Explain career opportunities in human resources management
2) Describe certifications for human resources-management professionals (e.g., Professional in Human Resources [PHR], Senior Professional in Human Resources [SPHR], Global Professional in Human Resources [GPHR], etc.)

Performance Element: Explore professional development opportunities to enhance skills needed in human resources management.

Measurement Criteria:
1) Identify continuing education courses or programs available to enhance human resources management skills
2) Identify professional association opportunities for human resources management professionals (e.g., educational opportunities, networking, conferences, newsletters, publications)
3) Utilize human resources publications (e.g., books, periodicals, newsletters) to update human-resources skills
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Human Resources Management

Pathway Topic: Strategic Management

Knowledge and Skill Statement: Understands tools, techniques, and systems that affect human resources management’s ability to plan, control, and organize

Performance Element: Implement strategic-planning processes to guide human-resources-management decision-making.

Measurement Criteria:
1) Explain how human resources management participates in a company’s strategic planning process
2) Determine the strategic importance of organizational exit
3) Develop organizational change-management program
4) Facilitate activities to enable strategic management process implementation
5) Evaluate human resources management’s contribution to organizational effectiveness

Performance Element: Evaluate organization’s strategic planning and policy-making processes to guide decision-making.

Measurement Criteria:
1) Apply environmental scanning techniques to assess strategic-planning processes
2) Apply results of environmental scan to business goals/objectives
3) Evaluate organizational change-management program
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Operations Management

Pathway Topic: Business Law

Knowledge and Skill Statement: **Understands business’s responsibility to know, abide by, and enforce laws and regulations that affect business operations and transactions**

Performance Element: Apply knowledge of business contracts to establish business relationships.

Measurement Criteria:
1. Discuss the nature of contract suspensions
2. Explain the nature of contract terminations
3. Issue a service/goods contract

Performance Element: Understand laws regulating the vendor/supplier bidding process to facilitate business operations.

Measurement Criteria:
1. Discuss regulations that affect the vendor/supplier bidding process
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Operations Management

Pathway Topic: Customer Relations

Knowledge and Skill Statement: Understands the techniques and strategies used to foster positive, ongoing relationships with customers

Performance Element: Foster positive relationships with customers to enhance sales.

Measurement Criteria:
1) Explain the relationship between customer services and sales
2) Process customer orders
3) Process returns
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Operations Management

Pathway Topic: Financial Analysis

Knowledge and Skill Statement: Understands tools, strategies, and systems used to maintain, monitor, control, and plan the use of financial resources

Performance Element: Utilize cost accounting methods to guide business decision-making.

Measurement Criteria:
1) Discuss the relationship between operations management and accounting
2) Describe the nature of cost accounting decision making
3) Explain the nature of job costing
4) Describe the nature of activity-based costing
5) Discuss the implications of quality costs
6) Perform job costing
7) Calculate quality costs (e.g. prevention, appraisal, failure)
8) Conduct cost/benefit analysis on planned acquisitions

Performance Element: Manage risk to protect a business’s wellbeing.

Measurement Criteria:
1) Discuss the nature of credit risk management
2) Discuss reasons to integrate risk management into business operations
3) Discuss the nature of enterprise risk management (ERM)
4) Integrate risk management into business operations

Performance Element: Implement suitable internal accounting controls to ensure the proper recording of financial transactions.

Measurement Criteria:
1) Explain the purpose of internal accounting controls
2) Determine the components of internal accounting control procedures for a business
3) Maintain internal accounting controls
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Operations Management

Pathway Topic: Information Management

Knowledge and Skill Statement: Understands tools, strategies, and systems used to access, process, maintain, evaluate, and disseminate information to assist operations management decision-making

Performance Element: Explain the role of technology to process and track customer orders.

Measurement Criteria:
1) Describe the impact of technology on order processing
2) Explain the nature of universal product code (UPC) barcoding
3) Explain the nature of radio frequency identification (RFID) tags
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration

Pathway: Operations Management

Pathway Topic: Operations

Knowledge and Skill Statement: Understands the processes and systems that operations managers implement to monitor, plan, and control the day-to-day business activities required for continued business functioning

Performance Element: Understand purchasing activities to obtain business materials and services.

Measurement Criteria:
1) Describe the role of solicitations used in the purchasing process
2) Discuss the impact of vendor competition on purchasing
3) Discuss the importance of utilizing ethical purchasing methods
4) Explain the impact of the purchasing process on productivity
5) Discuss the nature of purchasing methods
6) Describe business objectives/strategies that influence purchasing

Performance Element: Acquire knowledge of organizational requirements to properly handle purchase requisitions.

Measurement Criteria:
1) Describe types of purchase orders
2) Discuss organizational requirements for purchase requisitions
3) Discuss priority procedures used by businesses for purchases
4) Explain budgetary procedures for purchase requisitions

Performance Element: Manage purchasing activities to obtain the best service/product at the least cost.

Measurement Criteria:
1) Maintain vendor/supplier relationships
2) Develop lists of sources (e.g., approved, preferred, partnered, certified, disqualified)
3) Conduct vendor/supplier search
4) Negotiate terms with vendors
5) Establish bid specifications

Performance Element: Understand inventory control and management methods to maintain appropriate levels of stock/supplies.

Measurement Criteria:
1) Discuss types of inventory
2) Explain methods of inventory control
3) Discuss stockless purchasing and inventory systems
4) Describe the process of supplier-managed inventory

Performance Element: Plan the production of a product/service to facilitate business operations.

Measurement Criteria:
1) Explain the factors impacting a master production schedule
2) Create a master production schedule
3) Evaluate the effectiveness and efficiency of a production schedule

Performance Element: Manage quality-control processes to minimize errors and to expedite workflow.

Measurement Criteria:
1) Explain the nature of quality management
2) Determine reliability factors impacting the quality of a product/service
3) Test product/services for quality
4) Discuss the need for continuous improvement of the quality process
5) Develop continuous-improvement strategies
6) Develop a plan/program for quality achievement
Performance Element: Conduct supply chain management activities to coordinate the movement of materials, information, and funds into an organization and the movement of finished products/services out of an organization.

Measurement Criteria: 1) Explain the nature of order cycle time 2) Explain types of supply chain activities 3) Describe the nature of inter-organizational supply chains 4) Discuss organizational dependence on effective supply chains 5) Discuss the nature of supply chain management 6) Describe the relationship between supply chain management and logistics 7) Describe types of supply-chain management decisions (e.g., location, production, inventory, transportation) 8) Implement supply chain management strategies

Performance Element: Evaluate knowledge management strategies to improve the performance and competitive advantage of the organization.

Measurement Criteria: 1) Explain the role of organizational culture in knowledge management implementation 2) Assess knowledge-management strategies

Performance Element: Manage innovation to gain competitive advantage in the marketplace.

<table>
<thead>
<tr>
<th>Performance Element:</th>
<th>Adjust the work capacity of an organization to meet predicted demands.</th>
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<tbody>
<tr>
<td>Measurement Criteria:</td>
<td>1) Discuss the nature of capacity planning</td>
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<td></td>
<td>2) Describe factors impacting demand</td>
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<td></td>
<td>3) Explain types of capacity planning (e.g., lead strategy, lag strategy, match strategy)</td>
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<td></td>
<td>4) Plan work capacity</td>
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</table>
KNOWLEDGE & SKILL STRUCTURES

Cluster: Business Management and Administration
Pathway: Operations Management
Pathway Topic: Professional Development

Knowledge and Skill Statement: Understands concepts, tools, and strategies used to explore, obtain, and develop in an operations management career

Performance Element: Understand and follow company rules and regulations to maintain employment.

Measurement Criteria: 1) Adhere to company protocols and policies

Performance Element: Participate in career planning to enhance job success potential.

Measurement Criteria: 1) Explain career opportunities in operations management
2) Describe certifications for operations-management professionals

Performance Element: Explore professional development opportunities to enhance operations-management skills.

Measurement Criteria: 1) Identify continuing education courses or programs available to enhance operations-management skills
2) Identify professional association opportunities for operations-management professionals (e.g., educational opportunities, networking, conferences, newsletters, publications)
3) Utilize operations-management publications (e.g., books, periodicals, newsletters) to update skills