

The Pathway Knowledge and Skills Chart describes what all/most learners/workers need to know and be able to do to demonstrate competence within a career pathway. Following the pathway description, there are four sets of knowledge and skill expectations:

A. Foundational Academic Expectations
B. Essential Knowledge and Skills
C. Cluster (Foundation) Knowledge and Skills
D. Pathway Knowledge and Skills

#### **PATHWAY DESCRIPTION**

*Business Information Management:* 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.

#### **A. FOUNDATIONAL ACADEMIC EXPECTATIONS**

All secondary students should meet their state's academic standards. All Essential Cluster and Pathway Knowledge and Skills are predicated on the assumption that foundational academic skills have been attained. Some knowledge and skill statements will further define critical linkages and applications of academics in the cluster and/or pathway.

A. Foundational Academic Expectations
B. Essential Knowledge and Skills
C. Cluster (Foundation) Knowledge and Skills
D. Pathway Knowledge and Skills

#### **B. ESSENTIAL KNOWLEDGE AND SKILLS**

The following Essential Knowledge and Skill statements apply to careers in all clusters and pathways. Persons preparing for careers in this pathway should be able to demonstrate these skills in the context of this cluster and pathway.

A. Foundational Academic Expectations
B. Essential Knowledge and Skills
C. Cluster (Foundation) Knowledge and Skills
D. Pathway Knowledge and Skills

Essential Topic ESS01	ACADEMIC FOUNDATIONS: Achieve additional academic knowledge and skills required to pursue the full range of career and postsecondary education opportunities within a career cluster.
ESS01.01	Complete required training, education, and certification to prepare for employment in a particular career field.



ESS01.01.01	Identify training, education and certification requirements for occupational choice.
ESS01.01.02	Participate in career-related training and/or degree programs.
ESS01.01.03	Pass certification tests to qualify for licensure and/or certification in chosen occupational area.
ESS01.02	Demonstrate language arts knowledge and skills required to
	pursue the full range of post-secondary education and career
	opportunities.
ESS01.02.01	Model behaviors that demonstrate active listening.
ESS01.02.02	Adapt language for audience, purpose, situation. (i.e. diction/structure, style).
ESS01.02.03	Organize oral and written information.
ESS01.02.04	Compose focused copy for a variety of written documents such as agendas, audio-visuals, bibliographies, drafts, forms/documents, notes, oral presentations, reports, and technical terminology.
ESS01.02.05	Edit copy to create focused written documents such as agendas, audio- visuals, bibliographies, drafts, forms/documents, notes, oral presentations, reports, and technical terminology.
ESS01.02.06	Comprehend key elements of oral and written information such as cause/effect, comparisons/contrasts, conclusions, context, purpose, charts/tables/graphs, evaluation/critiques, mood, persuasive text, sequence, summaries, and technical subject matter.
ESS01.02.07	Evaluate oral and written information for accuracy, adequacy/sufficiency, appropriateness, clarity, conclusions/solutions, fact/opinion, propaganda, relevancy, validity, and relationship of ideas.
ESS01.02.08	Identify assumptions, purpose, outcomes/solutions, and propaganda techniques.
ESS01.02.09	Predict potential outcomes and/or solutions based on oral and written information regarding trends.
ESS01.02.10	Present formal and informal speeches including discussion, information requests, interpretation, and persuasive arguments.
ESS01.03	Demonstrate mathematics knowledge and skills required to
	pursue the full range of post-secondary education and career
	opportunities.
ESS01.03.01	Identify whole numbers, decimals, and fractions.
ESS01.03.02	Demonstrate knowledge of basic arithmetic operations such as addition, subtraction, multiplication, and division.
ESS01.03.03	Demonstrate use of relational expressions such as equal to, not equal, greater than, less than, etc.
ESS01.03.04	Apply data and measurements to solve a problem.
ESS01.03.05	Analyze mathematical problem statements for missing and/or irrelevant data.
ESS01.03.06	Construct charts/tables/graphs from functions and data.
ESS01.03.07	Analyze data when interpreting operational documents.



ESS01.04	Demonstrate science knowledge and skills required to pursue the full range of post-secondary and career education opportunities.
ESS01.04.01	Evaluate scientific constructs including conclusions, conflicting data, controls, data, inferences, limitations, questions, sources of errors, and variables.
ESS01.04.02	Apply scientific methods in qualitative and quantitative analysis, data gathering, direct and indirect observation, predictions, and problem identification.
Essential Topic ESS02	<b>COMMUNICATIONS:</b> Use oral and written communication skills in creating, expressing and interpreting information and ideas including technical terminology and information.
ESS02.01	Select and employ appropriate reading and communication strategies to learn and use technical concepts and vocabulary in practice.
ESS02.01.01	Determine the most appropriate reading strategy for identifying the overarching purpose of a text (i.e. skimming, reading for detail, reading for meaning or critical analysis).
ESS02.01.02	Demonstrate use of content, technical concepts and vocabulary when analyzing information and following directions.
ESS02.01.03	Select the reading strategy or strategies needed to fully comprehend the content within a written document (i.e., skimming, reading for detail, reading for meaning or critical analysis).
ESS02.01.04	Interpret information, data, and observations to apply information learned from reading to actual practice.
ESS02.01.05	Transcribe information, data, and observations to apply information learned from reading to actual practice.
ESS02.01.06	Communicate information, data, and observations to apply information learned from reading to actual practice.
ESS02.02	Demonstrate use of the concepts, strategies, and systems for
	obtaining and conveying ideas and information to enhance
	communication in the workplace.
ESS02.02.01	Employ verbal skills when obtaining and conveying information.
ESS02.02.02	Record information needed to present a report on a given topic or problem.
ESS02.02.03	Write internal and external business correspondence that conveys and/or obtains information effectively.
ESS02.02.04	Communicate with other employees to clarify workplace objectives.
ESS02.02.05	Communicate effectively with customers and employees to foster positive relationships.
ESS02.03	Locate, organize and reference written information from various sources to communicate with co-workers and clients/participants.



ESS02.03.01	Locate written information used to communicate with co-workers and customers.
ESS02.03.02	Organize information to use in written and oral communications.
ESS02.03.03	Reference the sources of information.
ESS02.04	Evaluate and use information resources to accomplish specific
50000 04 04	occupational tasks.
ESS02.04.01	Use informational texts, Internet web sites, and/or technical materials to review and apply information sources for occupational tasks.
ESS02.04.02	Evaluate the reliability of information from informational texts, Internet Web sites, and/or technical materials and resources.
ESS02.05	Use correct grammar, punctuation and terminology to write and
	edit documents.
ESS02.05.01	Compose multi-paragraph documents clearly, succinctly, and accurately.
ESS02.05.02	Use descriptions of audience and purpose when preparing and editing written documents.
ESS02.05.03	Use correct grammar, spelling, punctuation, and capitalization when preparing written documents.
ESS02.06	Develop and deliver formal and informal presentations using
20002.00	appropriate media to engage and inform audiences.
ESS02.06.01	Prepare oral presentations to provide information for specific purposes
20002.00.01	and audiences.
ESS02.06.02	Identify support materials that will enhance an oral presentation.
ESS02.06.03	Prepare support materials that will enhance an oral presentation.
ESS02.06.04	Deliver an oral presentation that sustains listeners' attention and interest.
ESS02.06.05	Align presentation strategies to the intended audience.
ESS02.06.06	Implement multi-media strategies for presentations.
ESS02.07	Interpret verbal and nonverbal cues/behaviors to enhance
	communication with co-workers and clients/participants.
ESS02.07.01	Interpret verbal behaviors when communicating with clients and co- workers.
ESS02.07.02	Interpret nonverbal behaviors when communicating with clients and co- workers.
ESS02.08	Apply active listening skills to obtain and clarify information.
ESS02.08.01	Interpret a given verbal message/information.
ESS02.08.02	Respond with restatement and clarification techniques to clarify
20002.00.02	information.
ESS02.09	Develop and interpret tables, charts, and figures to support written
	and oral communications.
ESS02.09.01	Create tables, charts, and figures to support written and oral
	communications.
ESS02.09.02	Interpret tables, charts, and figures used to support written and oral communication.



ESS02.10	Listen to and speak with diverse individuals to enhance
ESS02.10.01	<b>communication skills.</b> Apply factors and strategies for communicating with a diverse workforce.
ESS02.10.02	Demonstrate ability to communicate and resolve conflicts within a diverse workforce.
ESS02.11	Exhibit public relations skills to increase internal and external
	customer/client satisfaction.
ESS02.11.01	Communicate effectively when developing positive customer/client relationships.
Essential Topic ESS03	PROBLEM-SOLVING AND CRITICAL THINKING: Solve problems using critical thinking skills (analyze, synthesize, and evaluate) independently and in
	teams. Solve problems using creativity and innovation.
ESS03.01	Employ critical thinking skills independently and in teams to solve
	problems and make decisions (e.g., analyze, synthesize and
ESS03.01.01	evaluate).
E3303.01.01	Identify common tasks that require employees to use problem-solving skills.
ESS03.01.02	Analyze elements of a problem to develop creative solutions.
ESS03.01.03	Describe the value of using problem-solving and critical thinking skills to
	improve a situation or process.
ESS03.01.04	Create ideas, proposals, and solutions to problems.
ESS03.01.05	Evaluate ideas, proposals, and solutions to problems.
ESS03.01.06	Use structured problem-solving methods when developing proposals and solutions.
ESS03.01.07	Generate new and creative ideas to solve problems by brainstorming
	possible solutions.
ESS03.01.08	Critically analyze information to determine value to the problem-solving
	task.
ESS03.01.09	Guide individuals through the process of recognizing concerns and making informed decisions.
ESS03.01.10	Identify alternatives using a variety of problem-solving and critical thinking
	skills.
ESS03.01.11	Evaluate alternatives using a variety of problem-solving and critical
	thinking skills.
ESS03.02	Employ critical thinking and interpersonal skills to resolve conflicts with staff and/or customers.
ESS03.02.01	Analyze situations and behaviors that affect conflict management.
ESS03.02.01	Determine best options/outcomes for conflict resolution using critical
20000.02.02	thinking skills.
ESS03.02.03	Identify with others' feelings, needs, and concerns.
ESS03.02.04	Implement stress management techniques.
ESS03.02.05	Resolve conflicts with/for customers using conflict resolution skills.



ESS03.02.06	Implement conflict resolution skills to address staff issues/problems.
ESS03.03	Identify, write and monitor workplace performance goals to guide
	progress in assigned areas of responsibility and accountability.

- ESS03.03.01 Write realistic performance goals, objectives and action plans.
- ESS03.03.02 Monitor performance goals and adjust as necessary.
- ESS03.03.03 Recognize goal achievement using appropriate rewards in the workplace.
- ESS03.03.04 Communicate goal achievement with managers and co-workers.

ESS03.04 Conduct technical research to gather information necessary for decision-making.

- ESS03.04.01 Align the information gathered to the needs of the audience.
- ESS03.04.02 Gather technical information and data using a variety of resources.
- ESS03.04.03 Analyze information and data for value to the research objectives.
- ESS03.04.04 Evaluate information and data to determine value to research objectives.

Essential Topic ESS04	<b>INFORMATION TECHNOLOGY APPLICATIONS:</b> Use information technology tools specific to the career cluster to access, manage, integrate, and create information.
ESS04.01	Use Personal Information Management (PIM) applications to
	increase workplace efficiency.
ESS04.01.01	Manage personal schedules and contact information.
ESS04.01.02	Create memos and notes.
ESS04.02	Employ technological tools to expedite workflow.
ESS04.02.01	Use information technology tools to manage and perform work responsibilities.
ESS04.03	Operate electronic mail applications to communicate within a
	workplace.
ESS04.03.01	Use email to share files and documents.
ESS04.03.02	Identify the functions and purpose of email systems.
ESS04.03.03	Use email to communicate within and across organizations.
ESS04.04	Operate Internet applications to perform workplace tasks.
ESS04.04.01	Access and navigate Internet (e.g., use a web browser).
ESS04.04.02	Search for information and resources.
ESS04.04.03	Evaluate Internet resources for reliability and validity.
ESS04.05	Operate writing and publishing applications to prepare business
	communications.
ESS04.05.01	Prepare simple documents and other business communications.
ESS04.05.02	Prepare reports and other business communications by integrating graphics and other non-text elements.
ESS04.05.03	Prepare complex multi-media publications.
ESS04.06	Operate presentation applications to prepare presentations.
ESS04.06.01	Prepare presentations for training, sales and information sharing.



ESS04.06.02 ESS04.07	Deliver presentations with supporting materials. Employ spreadsheet applications to organize and manipulate data.
ESS04.07.01 ESS04.07.02	Create a spreadsheet. Perform calculations and analyses on data using a spreadsheet.
ESS04.08	Employ database applications to manage data.
ESS04.08.01	Manipulate data elements.
ESS04.08.02	Manage interrelated data elements.
ESS04.08.03	Analyze interrelated data elements.
ESS04.08.04	Generate reports showing interrelated data elements.
ESS04.09	Employ collaborative/groupware applications to facilitate group work.
ESS04.09.01	Facilitate group work through management of shared schedule and contact information.
ESS04.09.02	Facilitate group work through management of shared files and online information.
ESS04.09.03	Facilitate group work through instant messaging or virtual meetings.
ESS04.10	Employ computer operations applications to manage work tasks.
ESS04.10.01	Manage computer operations.
ESS04.10.02	Manage file storage.
ESS04.10.03 ESS04.11	Compress or alter files. Use computer-based equipment (containing embedded computers
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20004.11	
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Essential Topic ESS06	SAFETY, HEALTH AND ENVIRONMENTAL: Understand the importance of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance.
ESS06.01	Implement personal and jobsite safety rules and regulations to maintain safe and healthful working conditions and environments.
ESS06.01.01 ESS06.01.02	Assess workplace conditions with regard to safety and health. Align safety issues with appropriate safety standards to ensure a safe workplace/jobsite.
ESS06.01.03	Identify safety hazards common to workplaces.
ESS06.01.04	Identify safety precautions to maintain a safe worksite.
ESS06.01.05	Select appropriate personal protective equipment as needed for a safe workplace/jobsite.
ESS06.01.06	Inspect personal protective equipment commonly used for selected career pathway.
ESS06.01.07	Use personal protective equipment according to manufacturer rules and regulations.
ESS06.01.08	Employ a safety hierarchy and communication system within the workplace/jobsite.
ESS06.01.09	Implement safety precautions to maintain a safe worksite.
ESS06.02	Complete work tasks in accordance with employee rights and
	responsibilities and employers obligations to maintain workplace
	safety and health.
ESS06.02.01	Identify rules and laws designed to promote safety and health in the workplace.
ESS06.02.02	State the rationale of rules and laws designed to promote safety and health.
ESS06.03	Employ emergency procedures as necessary to provide aid in workplace accidents.
ESS06.03.01	Use knowledge of First Aid procedures as necessary.
ESS06.03.02	Use knowledge of CPR procedures as necessary.
ESS06.03.03	Use safety equipment as necessary.
ESS06.04	Employ knowledge of response techniques to create a disaster
	and/or emergency response plan.
ESS06.04.01	Complete an assessment of an emergency and/or disaster situation.
ESS06.04.02	Create an emergency and/or disaster plan.
Essential Topic ESS07	<b>LEADERSHIP AND TEAMWORK:</b> Use leadership and teamwork skills in collaborating with others to accomplish organizational goals and objectives.
ESS07.01	Employ leadership skills to accomplish organizational goals and objectives.



- ESS07.01.01 Analyze the various roles of leaders within organizations (e.g. contribute ideas; share in building an organization; act as role models to employees by adhering to company policies, procedures, and standards; promote the organization's vision; and mentor others).
- ESS07.01.02 Exhibit traits such as empowerment, risk, communication, focusing on results, decision-making, problem solution, and investment in individuals when leading a group in solving a problem.
- ESS07.01.03 Exhibit traits such as compassion, service, listening, coaching, developing others, team development, and understanding and appreciating others when acting as a manager of others in the workplace.
- ESS07.01.04 Exhibit traits such as enthusiasm, creativity, conviction, mission, courage, concept, focus, principle-centered living, and change when interacting with others in general.
- ESS07.01.05 Consider issues related to self, team, community, diversity, environment, and global awareness when leading others.
- ESS07.01.06 Exhibit traits such as innovation, intuition, adaptation, life-long learning and coachability to develop leadership potential over time.
- ESS07.01.07 Analyze leadership in relation to trust, positive attitude, integrity, and willingness to accept key responsibilities in a work situation.
- ESS07.01.08 Describe observations of outstanding leaders using effective management styles.
- ESS07.01.09 Participate in civic and community leadership and teamwork opportunities to enhance skills.

## ESS07.02 Employ organizational and staff development skills to foster positive working relationships and accomplish organizational goals.

- ESS07.02.01 Implement organizational skills when facilitating others' work efforts.
- ESS07.02.02 Explain how to manage a staff that satisfies work demands while adhering to budget constraints.
- ESS07.02.03 Describe how staff growth and development to increase productivity and employee satisfaction.
- ESS07.02.04 Organize team involvement within a group environment.
- ESS07.02.05 Work with others to develop and gain commitment to team goals.
- ESS07.02.06 Distribute responsibility and work load fairly.
- ESS07.02.07 Model leadership and teamwork qualities to aid in employee morale.
- ESS07.02.08 Identify best practices for successful team functioning.
- ESS07.02.09 Explain best practices for successful team functioning.

## ESS07.03 Employ teamwork skills to achieve collective goals and use team members' talents effectively.

- ESS07.03.01 Work with others to achieve objectives in a timely manner.
- ESS07.03.02 Promote the full involvement and use of team members' individual talents and skills.
- ESS07.03.03 Employ conflict-management skills to facilitate solutions.



ESS07.03.04	Demonstrate teamwork skills through working cooperatively with co- workers, supervisory staff, and others, both in and out of the organization, to achieve particular tasks.
ESS07.03.05	Demonstrate teamwork processes that provide team building, consensus, continuous improvement, respect for the opinions of others, cooperation, adaptability, and conflict resolution.
ESS07.03.06	Develop plans to improve team performance.
ESS07.03.07	Demonstrate commitment to and a positive attitude toward team goals.
ESS07.03.08	Take responsibility for shared group and individual work tasks.
ESS07.03.09	Assist team members in completing their work.
ESS07.03.10	Adapt effectively to changes in projects and work activities.
ESS07.03.11	Negotiate effectively to arrive at decisions.
ESS07.04	Establish and maintain effective working relationships with all
	levels of personnel and other departments in order to accomplish
	objectives and tasks.
ESS07.04.01	Build effective working relationships using interpersonal skills.
ESS07.04.02	Use positive interpersonal skills to work cooperatively with co-workers
	representing different cultures, genders and backgrounds.
ESS07.04.03	Manage personal skills to accomplish assignments.
ESS07.04.04	Treat people with respect.
ESS07.04.05	Provide constructive praise and criticism.
ESS07.04.06	Demonstrate sensitivity to and value for diversity.
ESS07.04.07	Manage stress and control emotions.
ESS07.05	Conduct and participate in meetings to accomplish work tasks.
ESS07.05.01	Develop meeting goals, objectives and agenda.
ESS07.05.02	Assign responsibilities for preparing materials and leading discussions.
ESS07.05.03	Prepare materials for leading discussion.
ESS07.05.04	Assemble and distribute meeting materials.
ESS07.05.05	Conduct meeting to achieve objectives within scheduled time.
ESS07.05.06	Demonstrate effective communication skills in meetings.
ESS07.05.07	Produce meeting minutes including decisions and next steps.
ESS07.05.08	Use parliamentary procedure, as needed, to conduct meetings.
ESS07.06	Employ mentoring skills to inspire and teach others.
ESS07.06.01	Use motivational techniques to enhance performance in others.
ESS07.06.02	Provide guidance to enhance performance in others.
<b>Essential Topic</b>	ETHICS AND LEGAL RESPONSIBILITIES: Know and understand the
ESS08	importance of professional ethics and legal responsibilities.
ESS08.01	Apply ethical reasoning to a variety of workplace situations in
	order to make ethical decisions.
ESS08.01.01	Evaluate alternative responses to workplace situations based on legal
	responsibilities and employer policies.
ESS08.01.02	Evaluate alternative responses to workplace situations based on personal
	or professional ethical responsibilities.



ESS09.03	Demonstrate skills related to seeking and applying for employment to find and obtain a desired job.
ESS09.02.01 ESS09.02.02	Develop career goals and objectives as part of a plan for future career direction. Develop strategies to reach career objectives.
ESS09.02	Develop a personal career plan to meet career goals and objectives.
ESS09.01.08	Manage work roles and responsibilities to balance them with other life roles and responsibilities.
ESS09.01.07	Identify positive work-qualities typically desired in each of the career cluster's pathways.
ESS09.01.06	Manage resources in relation to the position (i.e. budget, supplies, computer, etc).
ESS09.01.05	Apply communication strategies when adapting to a culturally diverse environment.
	to outdoor areas, including aerial space and a variety of climatic and physical conditions.
ESS09.01.03 ESS09.01.04	Exhibit commitment to the organization. Identify how work varies with regard to site, from indoor confined spaces
ESS09.01.02	work situation. Demonstrate flexibility and willingness to learn new knowledge and skills.
ESS09.01.01	<b>qualities needed to be employable.</b> Demonstrate self-discipline, self-worth, positive attitude, and integrity in a work situation
ESS09.01	Identify and demonstrate positive work behaviors and personal
Essential Topic ESS09	<b>EMPLOYABILITY AND CAREER DEVELOPMENT:</b> <i>Know and</i> <i>understand the importance of employability skills. Explore, plan, and effectively</i> <i>manage careers. Know and understand the importance of entrepreneurship</i> <i>skills.</i>
ESS08.02.02	Discuss how specific organizational policies and procedures influence a specific work situation.
ESS08.02.01	Locate information on organizational policies in handbooks and manuals.
	procedures to help employees perform their jobs according to employer rules and expectations.
ESS08.02	Interpret and explain written organizational policies and
ESS08.01.06	on legal and ethical considerations. Explain the most appropriate response to workplace situations based on legal and ethical considerations.
ESS08.01.05	illegal behaviors. Determine the most appropriate response to workplace situations based
ESS08.01.04	illegal behaviors. Explain personal and long-term workplace consequences of unethical or
ESS08.01.03	Identify personal and long-term workplace consequences of unethical or



ESS09.03.01	Use multiple resources to locate job opportunities.
ESS09.03.02	Prepare a résumé.
ESS09.03.03	Prepare a letter of application.
ESS09.03.04	Complete an employment application.
ESS09.03.05	Interview for employment.
ESS09.03.06	List the standards and qualifications that must be met in order to enter a given industry.
ESS09.03.07	Employ critical thinking and decision-making skills to exhibit qualifications to a potential employer.
ESS09.04	Maintain a career portfolio to document knowledge, skills and
	experience in a career field.
ESS09.04.01	Select educational and work history highlights to include in a career portfolio.
ESS09.04.02	Produce a record of work experiences, licenses, certifications and products.
ESS09.04.03	Organize electronic or physical portfolio for use in demonstrating knowledge, skills and experiences.
ESS09.05	Demonstrate skills in evaluating and comparing employment
	opportunities in order to accept employment positions that match
	career goals.
ESS09.05.01	Compare employment opportunities to individual needs and career plan objectives.
ESS09.05.02	Evaluate employment opportunities based upon individual needs and career plan objectives.
ESS09.05.03	Demonstrate appropriate methods for accepting or rejecting employment offers.
ESS09.06	Identify and exhibit traits for retaining employment to maintain
20003.00	employment once secured.
ESS09.06.01	Model behaviors that demonstrate reliability and dependability.
ESS09.06.02	Maintain appropriate dress and behavior for the job to contribute to a safe and effective workplace/jobsite.
ESS09.06.03	Complete required employment forms and documentation such as I-9
20000.00.00	form, work visa, W-4 and licensures to meet employment requirements.
ESS09.06.04	Summarize key activities necessary to retain a job in the industry.
ESS09.06.05	Identify positive work behaviors and personal qualities necessary to retain employment.
ESS09.07	Identify and explore career opportunities in one or more career
	pathways to build an understanding of the opportunities available
	in the cluster.
ESS09.07.01	Locate and identify career opportunities that appeal to personal career goals.
ESS09.07.02	Match personal interest and aptitudes to selected careers.



Recognize and act upon requirements for career advancement to
plan for continuing education and training.
Identify opportunities for career advancement.
Pursue education and training opportunities to acquire skills necessary for career advancement.
Examine the organization and structure of various segments of the industry to prepare for career advancement.
Research local and regional labor (workforce) market and job growth information to project potential for advancement.
Manage employment relations to make career advancements.
Continue professional development to keep current on relevant
trends and information within the industry.
Use self assessment, organizational priorities, journals, Internet sites, professional associations, peers and other resources to develop goals that address training, education and self-improvement issues.
Read trade magazines and journals, manufacturers' catalogues, industry publications and Internet sites to keep current on industry trends.
Participate in relevant conferences, workshops, mentoring activities and in- service training to stay current with recent changes in the field.
Examine licensing, certification and credentialing requirements at
the national, state and local levels to maintain compliance with
industry requirements.
Examine continuing education requirements related to licensing, certification, and credentialing requirements at the local, state and national levels for chosen occupation.
Examine the procedures and paperwork involved in maintaining and updating licensure, certification and credentials for chosen occupation.
Align ongoing licensing, certification and credentialing requirements to career plans and goals.
Examine employment opportunities in entrepreneurship to
consider entrepreneurship as an option for career planning.
Describe the opportunities for entrepreneurship in a given industry.
<b>TECHNICAL SKILLS:</b> Use of technical knowledge and skills required to pursue careers in all career cluster, including knowledge of design, operation,
and maintenance of technological systems critical to the career cluster.
Employ information management techniques and strategies in the workplace to assist in decision-making.
Use information literacy skills when accessing, evaluating and disseminating information.
Describe the nature and scope of information management. Maintain records to facilitate ongoing business operations.



### ESS10.02 Employ planning and time management skills and tools to enhance results and complete work tasks.

ESS10.02.01Develop goals and objectives.ESS10.02.02Prioritize tasks to be completed.ESS10.02.03Develop timelines using time management knowledge and skills.ESS10.02.04Use project-management skills to improve workflow and minimize costs.

#### C. CLUSTER (FOUNDATION) KNOWLEDGE AND SKILLS

The following Cluster (Foundation) Knowledge and Skill statements apply to all careers in the Business Management and Administration Cluster. Persons preparing for careers in the Business Management and Administration Cluster should be able to demonstrate these skills in addition to those found on the Essential Knowledge and Skills Chart.



#### ACADEMIC FOUNDATIONS: Achieve additional academic knowledge and **Cluster Topic** skills required to pursue the full range of career and postsecondary education BAC01 opportunities within a career cluster. **BAC01.01** Solve mathematical problems and use the information to make business decisions and enhance business management duties. BAC01.01.01 Solve mathematical problems using numbers and operations. Sample Indicators Recognize relationships among numbers Employ mathematical operations Perform computations successfully Predict reasonable estimations BAC01.01.02 Apply algebraic skills to make business decisions. Sample Indicators Recognize patterns and mathematical relations Use algebraic symbols to represent, solve, and analyze mathematical problems Create mathematical models from real-life situations Represent changes in quantities mathematically Determine rate of change mathematically Interpret graphical and numerical data Employ measurement skills to make business decisions. BAC01.01.03 Recognize measurable attributes of objects Sample Indicators Take measurements correctly BAC01.01.04 Perform data analysis to make business decisions. Formulate questions effectively Sample Indicators Collect relevant data Organize useful data Answer questions appropriately Employ appropriate statistical methods in data analysis

Administration	Business Management and Administration Cluster Business Information Management Pathway
	Knowledge and Skill Statements
	Develop and evaluate inferences and predictions Apply basic concepts of probability
BAC01.01.05	Evaluate the accuracy of mathematical responses using problem-solving techniques.
Sample Indicators	Identify problem-solving techniques Apply a variety of problem-solving strategies Adjust problem-solving strategies, when needed
BAC01.02	Examine and employ business and economic principles and
	concepts in making informed business decisions to continue
	business operations.
BAC01.02.01	Identify fundamental economic concepts necessary for employment in business.
Sample Indicators	Distinguish between economic goods and services
	Explain the concept of economic resources
	Describe the concepts of economics and economic activities Determine economic utilities created by business activities
	Explain the principles of supply and demand
	Describe the functions of prices in markets
BAC01.02.02	Describe the nature of business and its contribution to society.
Sample Indicators	Explain the role of business in society
	Describe types of business activities
	Explain the organizational design of businesses Discuss the global environment in which businesses operate
	Describe factors that affect the business environment
	Explain how organizations adapt to today's markets
BAC01.02.03	Recognize how economic systems influence environments in which businesses function.
Sample Indicators	Explain the types of economic systems
	Explain the concept of private enterprise
	Identify factors affecting a business's profit Determine factors affecting business risk
	Explain the concept of competition
	Describe market structures
BAC01.02.04	Use knowledge regarding the impact government has on businesses to
	make informed economic decisions.
Sample Indicators	Determine the relationship between government and business
	Describe the nature of taxes
	Discuss the nature of monetary policy
	Discuss the supply and demand for money
	Explain the role of the Federal Reserve System
	Explain the concept of fiscal policies Describe the effects of fiscal and monetary policies
BAC01.02.05 Sample Indicators	Analyze cost/profit relationships to guide business decision-making.
-	Analyze impact of specialization/division of labor on productivity
	Explain the concept of organized labor and business
	Explain the impact of the law of diminishing returns
<b>DAGO1</b> 00 00	Describe the concept of economies of scale
BAC01.02.06	Use economic indicators to detect economic trends and conditions.

	Administration	Business Management and Administration Cluster
D	- Auministration	Business Information Management Pathway
		Knowledge and Skill Statements
	Sample Indicators	Describe the concept of price stability as an economic measure
	Gample maleators	Discuss the measure of consumer spending as an economic indicator
		Discuss the impact of a nation's unemployment rates
		Explain the concept of Gross Domestic Product
		Describe the economic impact of inflation on business
		Explain unemployment and inflation tradeoffs
		Explain the economic impact of interest-rate fluctuations
		Determine the impact of business cycles on business activities
	BAC01.02.07	Determine global trade's impact on business decision-making.
	Sample Indicators	Explain the nature of global trade
		Describe the determinants of exchange rates and their effects on the domestic economy
		Discuss the impact of cultural and social environments on global trade
		Explain labor issues associated with global trade
	Cluster Topic	<b>COMMUNICATIONS:</b> Use oral and written communication skills in creating,
	BAC02	expressing and interpreting information and ideas including technical
	DACUZ	terminology and information.
		No additional statements in the topic beyond those found in the Essential Knowledge and
		Skills Chart.
	Cluster Topic	PROBLEM-SOLVING AND CRITICAL THINKING: Solve problems using
	BAC03	critical thinking skills (analyze, synthesize, and evaluate) independently and in
	DAC03	teams. Solve problems using creativity and innovation.
		No additional statements in the topic beyond those found in the Essential Knowledge and
		Skills Chart.
	Cluster Topic	INFORMATION TECHNOLOGY APPLICATIONS: Use information
	BAC04	technology tools specific to the career cluster to access, manage, integrate,
	DAC04	and create information.
		No additional statements in the topic beyond those found in the Essential Knowledge and
		Skills Chart.
		SYSTEMS: Understand roles within teams, work units, departments,
	Cluster Topic	organizations, inter-organizational systems, and the larger environment.
	BAC05	Identify how key organizational systems affect organizational performance and
		the quality of products and services. Understand global context of industries
		and careers.
E	BAC05.01	Identify new ideas, opportunities, and methods to create or start a
		new project or venture.
	BAC05.01.01	Employ entrepreneurial discovery strategies to generate feasible ideas for
		business ventures.
	Sample Indicators	Explain the need for entrepreneurial discovery
		Discuss entrepreneurial discovery processes
		Assess global trends and opportunities
		Determine opportunities for venture creation
		Assess opportunities for venture creation
		Describe idea-generation methods
		Generate venture ideas



	Determine feasibility of venture ideas
BAC05.01.02	Develop a concept for a new business venture.
Sample Indicators	Describe entrepreneurial planning considerations
	Explain tools used by entrepreneurs for venture planning
	Assess start-up requirements
	Assess risks associated with venture
	Describe external resources useful to entrepreneurs during concept development
	Assess the need to use external resources for concept development
	Describe strategies to protect intellectual property
	Use components of business plan to define venture idea
BAC05.01.03	Evaluate a new business venture concept's potential for success.
BAC05.01.04	Determine the resources needed for start-up viability of a business
	venture.
Sample Indicators	Describe processes used to acquire adequate financial resources for venture creation/start-up
	Select sources to finance venture creation/start-up
	Explain factors to consider in determining a venture's human-resource needs
	Explain considerations in making the decision to hire staff
	Describe considerations in selecting capital resources
	Identify capital resources needed for the venture
	Assess the costs/benefits associated with resources
BAC05.01.05	Actualize a new business venture to generate profit and/or meet
	objectives.
Sample Indicators	Use external resources to supplement entrepreneur's expertise
	Explain the complexity of business operations
	Evaluate risk-taking opportunities
	Explain the need for business systems and procedures
	Describe the use of operating procedures
	Explain methods/processes for organizing workflow
	Develop and/or provide product/service
	Use creative problem-solving in business activities/decisions
	Explain the impact of resource productivity on venture success
	Create processes for ongoing opportunity recognition
	Develop plan to invest resources into improving current products or creating new ones
	Adapt to changes in business environment
BAC05.01.06	Select a harvesting strategy that matches the entrepreneur's desired goals
	regarding the business venture.
Sample Indicators	Explain the need for continuation planning
	Describe methods of venture harvesting
	Evaluate options for continued venture involvement
	Develop exit strategies
BAC05.02	Analyze accounting systems' contribution to the fiscal stability of
	a business.
BAC05.02.01	Develop a foundational knowledge of accounting to understand its nature
	and scope.
Sample Indicators	Explain the concept of accounting
	Explain the need for accounting standards (GAAP)
	Discuss the role of ethics in accounting

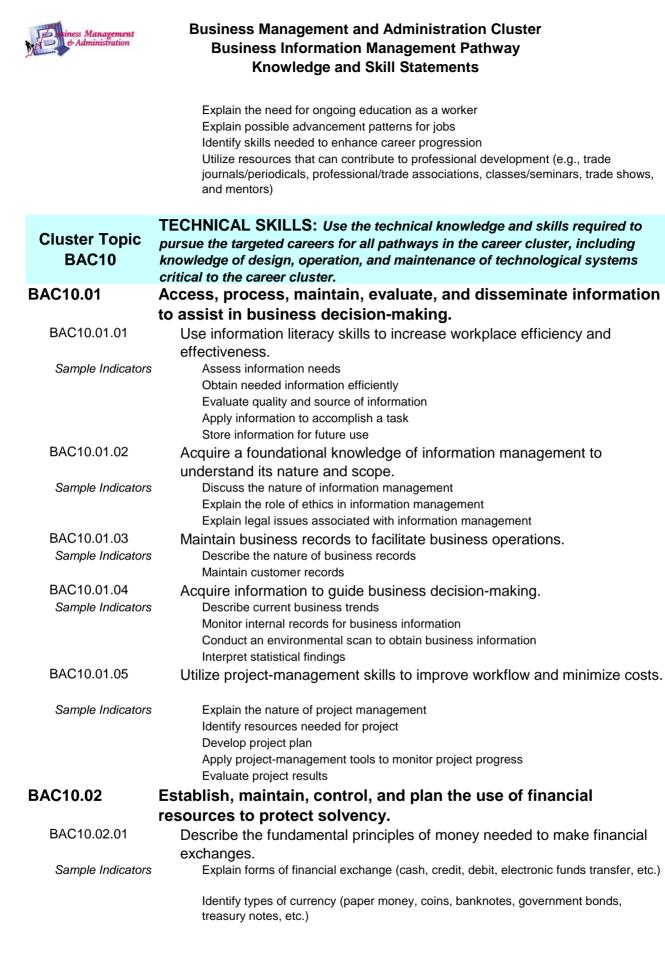
Administration	Business Management and Administration Cluster Business Information Management Pathway Knowledge and Skill Statements
	Explain the use of technology in accounting Explain legal considerations for accounting
BAC05.02.02	Demonstrate accounting procedures used to track money flow and to
2,1000102102	determine financial status.
Sample Indicators	Describe the nature of cash flow statements
	Prepare cash flow statements
	Explain the nature of balance sheets Describe the nature of income statements
BAC05.03	
DAC03.03	Understand tools, strategies, and systems used to maintain, monitor, control, and plan the use of financial resources.
BAC05.03.01	Acquire a foundational knowledge of finance to understand its nature and
DAC03.03.01	scope.
Sample Indicators	Explain the role of finance in business
,	Discuss the role of ethics in finance
	Explain legal considerations for finance
BAC05.04	Understand the methods that businesses use to recruit, train and
	develop human resources.
BAC05.04.01	Describe the role and function of human resources management.
Sample Indicators	Discuss the nature of human resources management
	Explain the role of ethics in human resources management
	Describe the use of technology in human resources management
	OAFETY UEALTU AND ENVIDENTAL AND AND
	SAFELY. HEALTH AND ENVIRONMENTAL: Understand the importance
Cluster Tonic	SAFETY, HEALTH AND ENVIRONMENTAL: Understand the importance of health, safety, and environmental management systems in organizations and
Cluster Topic	SAFETY, HEALTH AND ENVIRONMENTAL: Understand the importance of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance.
Cluster Topic BAC06	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous
BAC06	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance.
•	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Implement safety, health, and environmental controls to enhance
BAC06 BAC06.01	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Implement safety, health, and environmental controls to enhance business productivity.
BAC06	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Implement safety, health, and environmental controls to enhance business productivity. Adhere to health and safety regulations to support a safe work
BAC06 BAC06.01 BAC06.01.01	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Implement safety, health, and environmental controls to enhance business productivity. Adhere to health and safety regulations to support a safe work environment.
BAC06 BAC06.01	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Implement safety, health, and environmental controls to enhance business productivity. Adhere to health and safety regulations to support a safe work environment. Describe health and safety regulations in business
BAC06 BAC06.01 BAC06.01.01	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Implement safety, health, and environmental controls to enhance business productivity. Adhere to health and safety regulations to support a safe work environment. Describe health and safety regulations in business Report noncompliance with business health and safety regulations
BAC06 BAC06.01 BAC06.01.01 Sample Indicators	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Implement safety, health, and environmental controls to enhance business productivity. Adhere to health and safety regulations to support a safe work environment. Describe health and safety regulations in business
BAC06 BAC06.01 BAC06.01.01 Sample Indicators BAC06.01.02	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Implement safety, health, and environmental controls to enhance business productivity. Adhere to health and safety regulations to support a safe work environment. Describe health and safety regulations in business Report noncompliance with business health and safety regulations Implement safety procedures to minimize loss. Follow instructions for use of equipment, tools, and machinery Follow safety precautions
BAC06 BAC06.01 BAC06.01.01 Sample Indicators BAC06.01.02	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Implement safety, health, and environmental controls to enhance business productivity. Adhere to health and safety regulations to support a safe work environment. Describe health and safety regulations in business Report noncompliance with business health and safety regulations Implement safety procedures to minimize loss. Follow instructions for use of equipment, tools, and machinery Follow safety precautions Maintain a safe work environment
BAC06 BAC06.01 BAC06.01.01 Sample Indicators BAC06.01.02	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Implement safety, health, and environmental controls to enhance business productivity. Adhere to health and safety regulations to support a safe work environment. Describe health and safety regulations in business Report noncompliance with business health and safety regulations Implement safety procedures to minimize loss. Follow instructions for use of equipment, tools, and machinery Follow safety precautions Maintain a safe work environment Explain procedures for handling accidents
BAC06 BAC06.01 BAC06.01.01 Sample Indicators BAC06.01.02 Sample Indicators	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Implement safety, health, and environmental controls to enhance business productivity. Adhere to health and safety regulations to support a safe work environment. Describe health and safety regulations in business Report noncompliance with business health and safety regulations Implement safety procedures to minimize loss. Follow instructions for use of equipment, tools, and machinery Follow safety precautions Maintain a safe work environment Explain procedures for handling accidents Handle and report emergency situations
BAC06 BAC06.01 BAC06.01.01 Sample Indicators BAC06.01.02	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Implement safety, health, and environmental controls to enhance business productivity. Adhere to health and safety regulations to support a safe work environment. Describe health and safety regulations in business Report noncompliance with business health and safety regulations Implement safety procedures to minimize loss. Follow instructions for use of equipment, tools, and machinery Follow safety precautions Maintain a safe work environment Explain procedures for handling accidents Handle and report emergency situations Assess needed safety policies/procedures to ensure protection of
BAC06 BAC06.01 BAC06.01.01 Sample Indicators BAC06.01.02 Sample Indicators BAC06.01.03	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Implement safety, health, and environmental controls to enhance business productivity. Adhere to health and safety regulations to support a safe work environment. Describe health and safety regulations in business Report noncompliance with business health and safety regulations Implement safety procedures to minimize loss. Follow instructions for use of equipment, tools, and machinery Follow safety precautions Maintain a safe work environment Explain procedures for handling accidents Handle and report emergency situations Assess needed safety policies/procedures to ensure protection of employees.
BAC06 BAC06.01 BAC06.01.01 Sample Indicators BAC06.01.02 Sample Indicators	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Implement safety, health, and environmental controls to enhance business productivity. Adhere to health and safety regulations to support a safe work environment. Describe health and safety regulations in business Report noncompliance with business health and safety regulations Implement safety procedures to minimize loss. Follow instructions for use of equipment, tools, and machinery Follow safety precautions Maintain a safe work environment Explain procedures for handling accidents Handle and report emergency situations Assess needed safety policies/procedures to ensure protection of
BAC06 BAC06.01 BAC06.01.01 Sample Indicators BAC06.01.02 Sample Indicators BAC06.01.03	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Implement safety, health, and environmental controls to enhance business productivity. Adhere to health and safety regulations to support a safe work environment. Describe health and safety regulations in business Report noncompliance with business health and safety regulations Implement safety procedures to minimize loss. Follow instructions for use of equipment, tools, and machinery Follow safety precautions Maintain a safe work environment Explain procedures for handling accidents Handle and report emergency situations Assess needed safety policies/procedures to ensure protection of employees. Identify potential safety issues Establish safety policies and procedures Implement security policies/procedures to minimize chance for loss.
BAC06 BAC06.01 BAC06.01.01 Sample Indicators BAC06.01.02 Sample Indicators BAC06.01.03 Sample Indicators	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Implement safety, health, and environmental controls to enhance business productivity. Adhere to health and safety regulations to support a safe work environment. Describe health and safety regulations in business Report noncompliance with business health and safety regulations Implement safety procedures to minimize loss. Follow instructions for use of equipment, tools, and machinery Follow safety precautions Maintain a safe work environment Explain procedures for handling accidents Handle and report emergency situations Assess needed safety policies/procedures to ensure protection of employees. Identify potential safety issues Establish safety policies and procedures Implement security policies/procedures to minimize chance for loss. Explain routine security precautions
BAC06 BAC06.01 BAC06.01.01 Sample Indicators BAC06.01.02 Sample Indicators BAC06.01.03 Sample Indicators BAC06.01.04	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Implement safety, health, and environmental controls to enhance business productivity. Adhere to health and safety regulations to support a safe work environment. Describe health and safety regulations in business Report noncompliance with business health and safety regulations Implement safety procedures to minimize loss. Follow instructions for use of equipment, tools, and machinery Follow safety precautions Maintain a safe work environment Explain procedures for handling accidents Handle and report emergency situations Assess needed safety policies/procedures to ensure protection of employees. Identify potential safety issues Establish safety policies and procedures Implement security policies/procedures to minimize chance for loss. Explain routine security precautions Follow established security procedures/policies
BAC06 BAC06.01 BAC06.01.01 Sample Indicators BAC06.01.02 Sample Indicators BAC06.01.03 Sample Indicators BAC06.01.04	of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Implement safety, health, and environmental controls to enhance business productivity. Adhere to health and safety regulations to support a safe work environment. Describe health and safety regulations in business Report noncompliance with business health and safety regulations Implement safety procedures to minimize loss. Follow instructions for use of equipment, tools, and machinery Follow safety precautions Maintain a safe work environment Explain procedures for handling accidents Handle and report emergency situations Assess needed safety policies/procedures to ensure protection of employees. Identify potential safety issues Establish safety policies and procedures Implement security policies/procedures to minimize chance for loss. Explain routine security precautions



Sample Indicators	Identify potential security issues Establish policies to protect company information and intangibles Establish policies to maintain a non-hostile work environment Establish policies and procedures to maintain physical security of the work environment
Cluster Topic BAC07	<b>LEADERSHIP AND TEAMWORK:</b> Use leadership and teamwork skills in collaborating with others to accomplish organizational goals and objectives.
	No additional statements in the topic beyond those found in the Essential Knowledge and Skills Chart.
Cluster Topic BAC08	ETHICS AND LEGAL RESPONSIBILITIES: Know and understand the importance of professional ethics and legal responsibilities.
BAC08.01	Describe business's responsibility to know and abide by laws and
	regulations that affect business operations.
BAC08.01.01 Sample Indicators	Obtain and provide information in a business setting. Respect the privacy of others Explain ethical considerations in providing information Protect confidential information Determine information appropriate to obtain from a client or another employee
BAC08.01.02	Demonstrate ethical behaviors in the workplace.
Sample Indicators	Explain the nature of business ethics Demonstrate responsible behavior Demonstrate honesty and integrity Demonstrate ethical work habits
BAC08.01.03	Manage internal and external business relationships to foster positive
Sample Indicators	interactions. Treat others fairly at work Describe ethics in human resources issues
BAC08.01.04 Sample Indicators	Describe the nature and scope of business laws and regulations. Discuss the nature of law and sources of law in the United States Describe the US Judicial system hierarchy for legal appeals Describe legal issues affecting businesses
BAC08.01.05	Describe the elements of a business contract.
Sample Indicators	Identify the basic torts relating to business enterprises Describe the nature of legally binding contracts
BAC08.01.06	Describe the current regulatory environment of United States' businesses.
Sample Indicators	Describe the nature of legal procedure Discuss the nature of debtor-creditor relationships Explain the nature of agency relationships Discuss the nature of environmental law Discuss the role of administrative law
BAC08.01.07	Describe current human resources laws and regulations.
Sample Indicators	Explain the nature of human resources regulations Explain the nature of workplace regulations (including OSHA, ADA) Discuss employment relationships
BAC08.01.08	Select business structure for immediate and long-term operations.



Sample Indicators	Explain types of business ownership Select form of business ownership
BAC08.01.09	Describe applicable commerce laws and regulations.
Sample Indicators	Explain the nature of trade regulations
	Describe the impact of anti-trust legislation
BAC08.01.10	Explain applicable tax laws and regulations to comply with government
	requirements.
Sample Indicators	Explain the nature of tax regulations on business
	Explain the nature of businesses' reporting requirements
	Develop strategies for legal/government compliance
	EMPLOYABILITY AND CAREER DEVELOPMENT: Know and
Cluster Topic	understand the importance of employability skills. Explore, plan, and effectively
BAC09	manage careers. Know and understand the importance of entrepreneurship
	skills.
BAC09.01	Explore, obtain, and develop strategies for ensuring a successful
	business career.
BAC09.01.01	Develop self-understanding to recognize the impact of personal actions on
	others.
Sample Indicators	Describe the nature of emotional intelligence
	Explain the concept of self-esteem
	Recognize personal biases and stereotypes
DA 000 04 00	Assess personal strengths and weaknesses
BAC09.01.02	Develop personal traits and behaviors to foster career advancement.
Sample Indicators	Identify desirable personality traits important to business Exhibit a positive attitude
	Exhibit self-confidence
	Demonstrate interest and enthusiasm
	Demonstrate initiative
	Foster positive working relationships
BAC09.01.03	Participate in career-planning to enhance job-success potential.
Sample Indicators	Assess personal interests and skills needed for success in business
	Analyze employer expectations in the business environment
	Explain the rights of workers
	Identify sources of career information Identify tentative occupational interest
	Explain employment opportunities in business
BAC09.01.04	Implement job-seeking skills to obtain employment.
Sample Indicators	Utilize job-search strategies
	Complete a job application
	Interview for a job
	Write a follow-up letter after job interviews
	Write a letter of application
	Prepare a résumé
	Use networking techniques to identify employment opportunities
BAC09.01.05	Utilize career-advancement activities to enhance professional
Sample Indicators	development. Describe techniques for obtaining work experience (e.g., volunteer activities,
Sample mulcalors	internships)



Administration	Business Management and Administration Cluster Business Information Management Pathway Knowledge and Skill Statements
	Describe functions of money (medium of exchange, unit of measure, store of value)
	Describe sources of income (wages/salaries, interest, rent, dividends, transfer payments, etc.)
	Explain the time value of money
	Explain the purposes and importance of credit
	Explain legal responsibilities associated with financial exchanges
BAC10.02.02 Sample Indicators	Analyze financial needs and goals to determine financial requirements. Explain the nature of financial needs (e.g., college, retirement, wills, insurance, etc.)
	Set financial goals
DA 040 00 00	Develop personal budget
BAC10.02.03 Sample Indicators	Manage personal finances to achieve financial goals. Explain the nature of tax liabilities
	Interpret a pay stub
	Read and reconcile bank statements
	Maintain financial records Demonstrate the wise use of credit
	Validate credit history
	Protect against identity theft
	Prepare personal income tax forms (i.e., 1040 EZ)
BAC10.02.04	Explain the use of financial-services providers to aid in financial-goal
	achievement.
Sample Indicators	Describe types of financial-services providers Discuss considerations in selecting a financial-services provider
BAC10.02.05	Use investment strategies to ensure financial well-being.
Sample Indicators	Explain types of investments
	Explain the nature of capital investment
	Establish investment goals and objectives
BAC10.02.06	Identify potential business threats and opportunities for protecting a
	business's financial well-being.
Sample Indicators	Describe the concept of insurance
	Obtain insurance coverage
	Settle insurance losses
	Identify speculative business risks Explain the nature of risk management
BAC10.02.07	Obtain business credit and establish financial controls.
Sample Indicators	Explain the purposes and importance of obtaining business credit
	Analyze critical banking relationships
	Make critical decisions regarding acceptance of bank cards Determine financing needed for business operations
	Identify risks associated with obtaining business credit
	Explain sources of financial assistance
	Explain loan evaluation criteria used by lending institutions
	Complete loan application package
BAC10.02.08	Manage financial resources to maintain business solvency.
Sample Indicators	Describe the nature of budgets
	Explain the nature of operating budgets
	Describe the nature of cost/benefit analysis



Determine relationships among total revenue, marginal revenue, output, and profit

Develop company's/department's budget Forecast sales Calculate financial ratios Interpret financial statements

## BAC10.03 Employ tools and strategies to influence, plan, control, and organize an organization/department.

BAC10.03.01Explain the role that business management has in contributing to business<br/>success.Sample IndicatorsExplain the concept of management<br/>Explain the nature of managerial ethicsBAC10.03.02<br/>Sample IndicatorsUtilize planning tools to guide organization's/ department's activities.<br/>Explain the nature of business plans

Develop company goals/objectives

- Define business mission
- Conduct an organizational SWOT

Explain external planning considerations

Identify and benchmark key performance indicators (e.g., dashboards, scorecards,

etc.)

Develop action plans Develop business plan

- BAC10.03.03 Implement control activities that promote growth and development of the organization/department.
- Sample Indicators Describe the nature of managerial control (control process, types of control, what is controlled)

Analyze operating results in relation to budget/industry Track performance of business plan

## BAC10.04 Identify, understand and implement processes and systems used to monitor, plan, and control day-to-day business activities.

 BAC10.04.01
 Implement expense-control strategies to enhance a business's financial well-being.

 Sample Indicators
 Explain the nature of overhead/operating costs

 Explain employee's role in expense control

Control use of supplies Conduct breakeven analysis Negotiate service and maintenance contracts Negotiate lease or purchase of facility Develop expense control plans Use budgets to control operations

BAC10.04.02 Maintain property and equipment necessary for ongoing business activities.

Sample Indicators Identify routine activities for maintaining business facilities and equipment Plan maintenance program

## BAC10.05 Create, communicate, and deliver value to customers while managing customer relationships.



BAC10.05.01	Perform customer service activities to support customer relationships and encourage repeat business.
Sample Indicators	Process customer orders Process customer returns
BAC10.05.02 Sample Indicators	Utilize technology to facilitate customer relationship management. Explain the use of databases in customer relationship management (CRM) Use CRM technology
BAC10.06	Employ systems, strategies, and techniques used to collect,
	organize, analyze, and share information in an organization.
BAC10.06.01	Explain the nature and scope of knowledge management practices within a business.
Sample Indicators	Explain the nature of knowledge management Discuss the role of ethics in knowledge management Explain the use of technology in knowledge management Explain legal considerations for knowledge management
BAC10.06.02	Use knowledge management strategies to improve the performance and competitive advantage of an organization.
Sample Indicators	Identify techniques that can be used to capture and transfer knowledge in an organization Determine factors causing loss of organizational knowledge Implement knowledge-management strategies
BAC10.07	Plan, implement, monitor, and evaluate business projects.
BAC10.07 BAC10.07.01 Sample Indicators	Utilize project management skills to start, run, and complete projects. Explain the nature of a project life cycle
BAC10.07.01	Utilize project management skills to start, run, and complete projects. Explain the nature of a project life cycle Explain standard project-management processes Coordinate schedules and activities
BAC10.07.01	Utilize project management skills to start, run, and complete projects. Explain the nature of a project life cycle Explain standard project-management processes
BAC10.07.01 Sample Indicators	Utilize project management skills to start, run, and complete projects. Explain the nature of a project life cycle Explain standard project-management processes Coordinate schedules and activities Track project progress and results
BAC10.07.01 Sample Indicators	Utilize project management skills to start, run, and complete projects. Explain the nature of a project life cycle Explain standard project-management processes Coordinate schedules and activities Track project progress and results Implement, monitor and evaluate quality standards in order to
BAC10.07.01 Sample Indicators	Utilize project management skills to start, run, and complete projects. Explain the nature of a project life cycle Explain standard project-management processes Coordinate schedules and activities Track project progress and results Implement, monitor and evaluate quality standards in order to ensure high quality. Explain the nature and scope of quality management practices within a
BAC10.07.01 Sample Indicators BAC10.08 BAC10.08.01	Utilize project management skills to start, run, and complete projects. Explain the nature of a project life cycle Explain standard project-management processes Coordinate schedules and activities Track project progress and results Implement, monitor and evaluate quality standards in order to ensure high quality. Explain the nature and scope of quality management practices within a business. Explain the nature of quality management
BAC10.07.01 Sample Indicators BAC10.08 BAC10.08.01	Utilize project management skills to start, run, and complete projects. Explain the nature of a project life cycle Explain standard project-management processes Coordinate schedules and activities Track project progress and results Implement, monitor and evaluate quality standards in order to ensure high quality. Explain the nature and scope of quality management practices within a business. Explain the nature of quality management Describe the nature of quality management frameworks (e.g., Six Sigma, ITIL, CMMI)
BAC10.07.01 Sample Indicators BAC10.08 BAC10.08.01 Sample Indicators	Utilize project management skills to start, run, and complete projects. Explain the nature of a project life cycle Explain standard project-management processes Coordinate schedules and activities Track project progress and results Implement, monitor and evaluate quality standards in order to ensure high quality. Explain the nature and scope of quality management practices within a business. Explain the nature of quality management Describe the nature of quality management frameworks (e.g., Six Sigma, ITIL, CMMI) Discuss the need for continuous improvement of the quality process
BAC10.07.01 Sample Indicators BAC10.08 BAC10.08.01 Sample Indicators	Utilize project management skills to start, run, and complete projects. Explain the nature of a project life cycle Explain standard project-management processes Coordinate schedules and activities Track project progress and results Implement, monitor and evaluate quality standards in order to ensure high quality. Explain the nature and scope of quality management practices within a business. Explain the nature of quality management Describe the nature of quality management frameworks (e.g., Six Sigma, ITIL, CMMI) Discuss the need for continuous improvement of the quality process Examine and employ risk management strategies and techniques
BAC10.07.01 Sample Indicators BAC10.08 BAC10.08.01 Sample Indicators BAC10.09	Utilize project management skills to start, run, and complete projects. Explain the nature of a project life cycle Explain standard project-management processes Coordinate schedules and activities Track project progress and results Implement, monitor and evaluate quality standards in order to ensure high quality. Explain the nature and scope of quality management practices within a business. Explain the nature of quality management Describe the nature of quality management frameworks (e.g., Six Sigma, ITIL, CMMI) Discuss the need for continuous improvement of the quality process Examine and employ risk management strategies and techniques in order to minimize potential business loss. Explain the nature and scope of risk management practices within a

#### **D. PATHWAY KNOWLEDGE AND SKILLS**

The following knowledge and skill statements apply to all careers in the Business Information Management Pathway. The statements are organized within five topics.



A. Foundational Academic Expectations

B. Essential Knowledge and Skills

C. Cluster (Foundation) Knowledge and Skills

D. Pathway Knowledge and Skills

Pathway Topic BAPB01	BUSINESS LAW
BAPB01.01	Know and abide by laws and regulations affecting operations and transactions in order to comply with industry standards.
BAPB01.01.01	Apply knowledge of business contracts to establish business relationships.
Sample Indicators	Discuss the nature of contract suspensions Explain the nature of contract terminations Issue a business contract

Pathway Topic BAPB02	FINANCIAL ANALYSIS
BAPB02.01	Maintain, monitor, control and plan the use of financial resources
	to ensure a business's financial well-being.
BAPB02.01.01	Utilize cost accounting methods to guide business decisions pertaining to
	quality.
Sample Indicators	Discuss the implications of quality costs
	Calculate quality costs (e.g. prevention, appraisal, failure)
BAPB02.01.02	Manage risk to protect a business's well-being.
Sample Indicators	Explain the impact of risk on business
	Discuss the nature of credit risk management
	Discuss reasons to integrate risk management into business operations
	Discuss the nature of enterprise risk management (ERM)
	Integrate risk management into business operations
BAPB02.01.03	Implement suitable internal accounting controls to ensure the proper
	recording of financial transactions.
Sample Indicators	Explain the purpose of internal accounting controls
	Determine the components of internal accounting control procedures for a business

Maintain internal accounting controls

#### Pathway Topic BAPB03 INFORMATION MANAGEMENT

#### BAPB03.01

## Access, process, maintain, evaluate, and disseminate information in a business to enhance decision-making processes.

BAPB03.01.01	Enhance usability of computer system operations.
Sample Indicators	Explain issues involved in designing systems for different environments
	Explain usability engineering methods
	Support and maintain a multimedia website



BAPB03.01.02	Use database software to create databases that faciltiate business decision-making.
Sample Indicators	Explain the principles of data analysis Explain the nature of tools that can be used to access information in the database system
	Choose appropriate software
	Define fields and type of data
	Enter database structure
	Define relationships of tables
	Analyze company's data requirements
	Design a database to meet business requirements Identify database trends
BAPB03.01.03	Use data entry techniques to enter information in databases.
Sample Indicators	Access information in the database system
	Build data in a data warehouse
	Create a meaningful data set
	Enter data into databases, tables and/or forms
	Edit data in databases, tables and/or forms
	Create interface user form for easier entry of data
	Import and/or export databases
BAPB03.01.04	Use commands to retrieve data and create reports from databases.
Sample Indicators	Retrieve data from tables and queries
	Create queries
	Create and print reports
	Manipulate data in the database management system
BAPB03.01.05	Apply data mining methods to acquire pertinent information for business decision-making.
Sample Indicators	Discuss the nature of data mining
,	Describe data mining tools and techniques
	Discuss the importance of ethics in data mining
	Demonstrate basic data mining techniques
	Interpret data mining findings
BAPB03.01.06	Use a computer's operating system to execute work responsibilities.
Sample Indicators	Move files in the computer operating system Create directories
BAPB03.01.07	Use technology to support business strategies and operations.
Sample Indicators	Explain methods used to develop the technological infrastructure
	Identify the management information requirements of an organization
	Discuss the nature of enterprise architecture
	Align technology with business needs

# Pathway Topic<br/>BAPB04OPERATIONSBAPB04.01Monitor, plan, and control day-to-day business activities in order<br/>to sustain continued business functioning.BAPB04.01.01<br/>Sample IndicatorsUtilize project management processes to plan a business project.<br/>Initiate a business project

Design a business project BAPB04.01.02 Utilize project management processes to conduct a business project.



Sample Indicators	Implement a project
	Manage project team
	Monitor a business project
	Minimize a business project's errors
	Conclude a business project
BAPB04.01.03	Manage purchasing activities to obtain the best service/product for the
	project at the least cost.
Sample Indicators	Maintain vendor/supplier relationships
	Negotiate terms with vendors
	Establish bid specifications
BAPB04.01.04	Utilize business analysis methods and techniques to improve business
	functions and activities.
Sample Indicators	Discuss the nature of business analysis
	Discuss the connection between business analysis and business process
	management
	Explain types of requirements (e.g. business, system, functional, nonfunctional)
BAPB04.01.05	Develop requirements and solutions to improve business processes,
	performance, or people.
Sample Indicators	Plan the requirements development process
	Determine requirements stakeholders
	Elicit requirements from stakeholders
	Validate requirements
	Ensure the usability of a proposed solution
BAPB04.01.06	Manage quality-control processes to minimize errors and to improve
	processes.
Sample Indicators	Test product/service for quality
	Determine reliability factors impacting the quality of a product/service
	Develop continuous-improvement strategies
	Develop a plan/program for quality achievement

#### Pathway Topic BAPB05 STRATEGIC MANAGEMENT

BAPB05.01	Plan, control, and organize an organization/department to
	maximize contribution to business success.
BAPB05.01.01	Coordinate information management and business management to aid in business planning.
Sample Indicators	Explain the strategic role of information systems/information communication technology within an organization
	Determine risks and rewards of developing a strategic role for information systems/ information communication technology Integrate information systems planning with business planning
BAPB05.01.02 Sample Indicators	Analyze available software packages for use in business setting. Determine equipment needed Determine supplies needed Establish equipment and supplies maintenance system Schedule equipment maintenance procedure Utilize equipment and supplies maintenance procedures Operate postage meter Operate scanner
	Operate scattle