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ABSTRACT

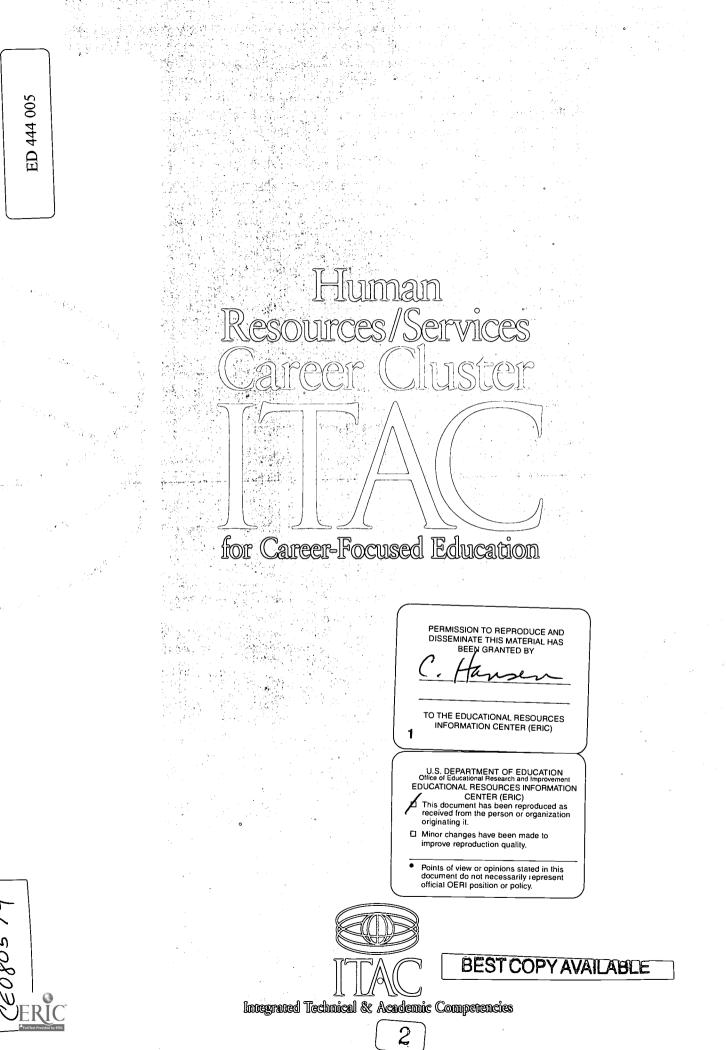
Designed for Ohio educators responsible for planning programs to prepare high school students for careers in human resources/services, this document presents an overview of Ohio's Integrated Technical and Academic Competencies (ITAC) system of career-focused education and specific information about the human resources/services ITAC career cluster. The first half of the document, which introduces the ITAC system's underlying principles and elements, contains the following items: (1) descriptions of the three types of integrated competencies (core, career cluster, and specialization) forming the ITAC model; (2) guidelines for using ITAC; (3) an explanation of the components of the 51 core ITAC; and (4) a table detailing the academic connections in the core ITAC. The second half of the document, which focuses on the human resources/services career cluster ITAC, is divided into six sections, each of which focuses on one of the following strands deemed essential for all careers: solving problems and thinking skillfully; communicating effectively; applying technology; working responsibly; planning and managing a career; and managing resources. Each section contains the following items: expectation; competencies; sample

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scenario; sample guiding questions; connections to core ITAC competencies; connections to academic models; and connections to Ohio's proficiency tests and ACT Work Keys. (MN)



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The Human Resources/Services Career Cluster includes the entry-level, technical and professional career options within a variety of industries related to economic, political, and social systems. These industries encompass personal, protective, legal, educational, and children's and family services.

Sample career options within this cluster include—

- cosmetologist
- barber

• corrections officer

- law enforcement officer
- paralegal
- clergy

• attorney

social worker

psychologist

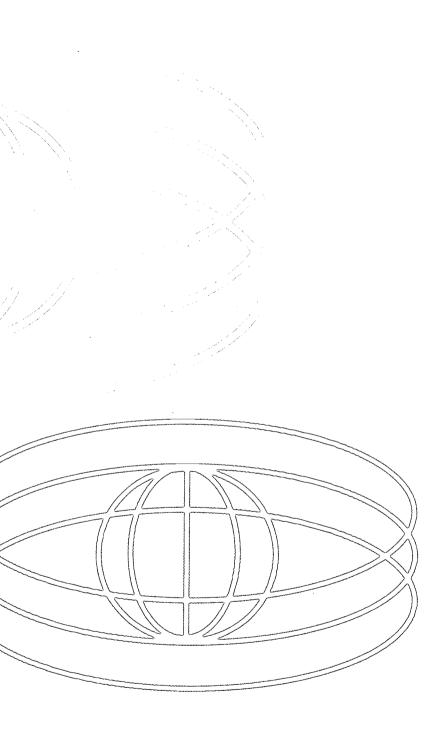
- ° chemical dependency counselor
- elementary school teacher
- secondary school teacher
- ° early childhood education teacher



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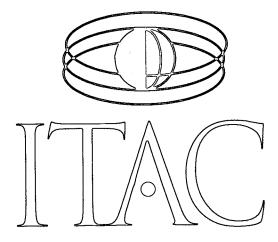




Career-Focused Education

Career-Focused Education combines high-level academics and technical skills with a real-life context for learning that maximizes students' present and future academic and career success. Career-focused education strengthens—

- proficiency test success
- integrated instruction
- partnerships between education and business & industry
- aquisition of transferable career skills



Integrated Technical & Academic Competencies for Career-Focused Education

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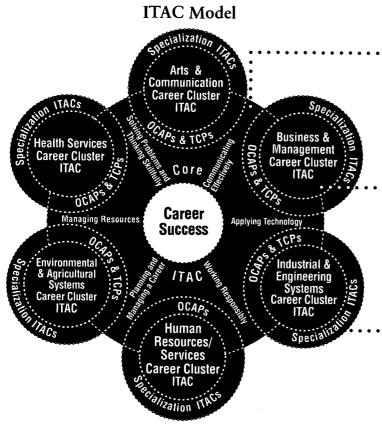


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Components of the ITAC System

Integrated Technical and Academic Competencies (ITAC) documents consist of competencies that integrate academic, technical, and employability knowledge, skills, and attitudes. ITACs are presented in resource documents that include the expectations, competencies, scenarios, and academic connections. ITACs are developed through—

- review and synthesis of national academic, employability, and occupational standards;
- review by teachers—both vocational and academic;
- validation by business and industry representatives; and
- direct links to Ohio's competency-based education (CBE) models, proficiency test learning outcomes, and ACT Work Keys[®] System.



Three types of ITACs form this model:

- Core ITAC Consists of 51 competencies organized into six strands essential for all careers and sample work-related scenarios. Core ITAC represents what individuals need to know and be able to do to be successful in further education, in a career, and in life.
- Career Cluster ITAC Consists of the foundational competencies common to related occupations or industries and sample work-related scenarios. The six Career Cluster ITACs provide a broad foundation for entrylevel, technical, and professional careers.
- Specialization ITAC Consists of competencies and sample scenarios critical to success in a specific industry or occupation within a career cluster. Currently, 55
 Occupational Competency Analysis Profiles (OCAPs) represent the Specialization Competencies. As OCAPs are revised, they will become Specialization ITACs.

The ITAC system builds on and expands the Occupational Competency Analysis Profile (OCAP) system, which was designed primarily for occupation-specific vocational programs. The ITAC system provides a broader range of competencies, integrates academic knowledge and skills with technical content, and provides sample scenarios to illustrate work-related context. This system is a resource for **both** academic and technical teachers as they plan programs and instruction.

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How to Use ITACs

Integrated Technical and Academic Competencies (ITAC) documents are resources for planning programs. The competencies of the ITAC system integrate technical and academic content and are organized into three types, moving from broad to specific—core, career cluster, and specialization. The types are interrelated building blocks for program design. *Core* provides the broad competencies. *Career Cluster* incorporates use of *Core* competencies. *Specialization* incorporates application of both the related *Career Cluster* and *Core* competencies. These ITAC types can be integrated into the overall educational system as follows:

- The Core ITAC could be used to design learning experiences for all students.
- The Career Cluster ITACs—in combination with Core ITAC—could be used to guide courses or experiences in which students explore and develop essential competencies within one of the following career clusters:

✓ Arts & Communication

✓ Business & Management

✔ Environmental & Agricultural Systems

✓ Health Services

✔ Human Resources/Services

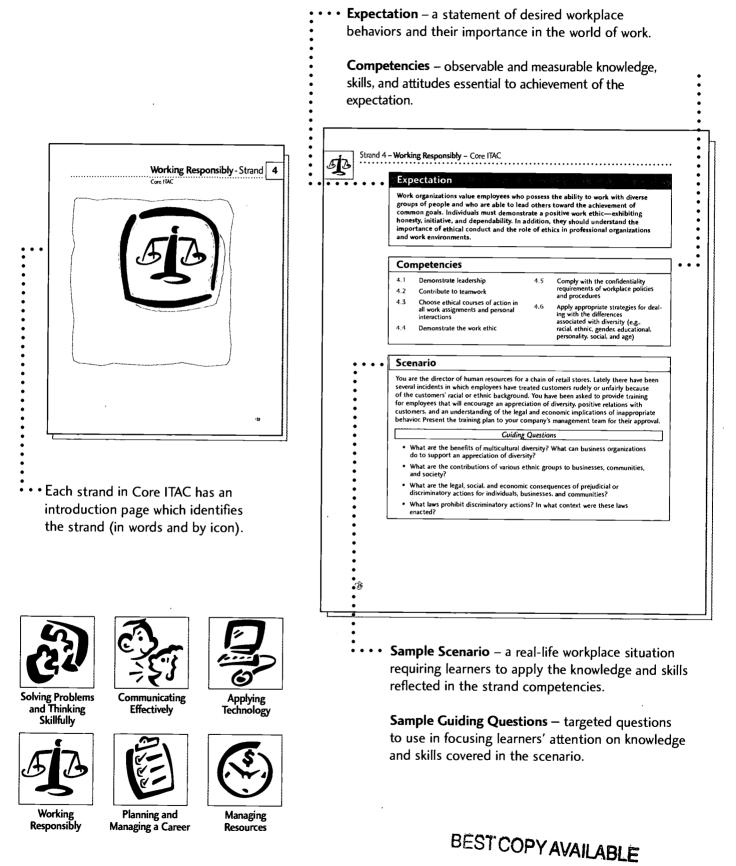
- ✔ Industrial & Engineering Systems
- Specialization ITACs—in combination with Core ITAC and Cluster ITACs—could be used for those programs, courses, and experiences with specific technical skill development.

As a curricular and instructional planning tool, ITACs identify the knowledge, skills, and attitudes needed to help students prepare for academic and career success. ITAC documents foster the development of interdisciplinary projects and learning experiences by illustrating the relationships between broad-based career skills and academic content. Educators can use the components of the ITACs in a number of ways for classroom instruction:

- Competencies can be reviewed and relevant competencies selected for instruction.
- Connections that need to be made between competencies and academic skills can be identified.
- Scenarios can be used as a basis for learning experiences.



Components of Core ITAC



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			Core ITAC		Academic Models Percent of Model Relating to Core ITAC					
			Competencies	8	Ø	0	2	dP		•
			Strand 3 Applying Technology	The Arts	Math	Social Studies	Arts	Foreign Language	Science	
			3.1 Demonstrate technological literacy 3.2 Access/transmit information using	5%	15	1%	0%	0%_	85	ł
		— Ì	3.2 Access barset into nation starg electronic communication systems 3.3 Demonstrate computer literacy		2%	0%	42	38	- 13	
		h l	3.4 Use database software in work-rela situations		0%	0%	-1%	0%	3%	
	Core ITAC ~ Working Responsibly - Strand 4	de l	3.5 Use spreadsheet software in work- situations 3.6 Use word-processing software in	elated 0%	-1%	0%. 0%.	2%	2%	23	ł
••••		P	3.6 Use word-processing software in work-related situations Strand 4 Working Responsibly	-+-						
2	Demonstrate leadership	••	4.1 Demonstrate leadership 4.2 Contribute to tearmork	20%	0%	2%	15	0%	4%	
1.3	Identify a variety of leadership strategies	:	4.3 Choose ethical courses of action is assignments and personal interact	2MS	0%	-1%	18	0%	42	
1.2	Demonstrate leadership qualities	•	4.4 Demonstrate the work ethic 4.5 Comply with the confidentiality requirements of workplace policies	<1% 0%	0%	1%	-15	0%	13	1
1,4	Analyze the factors influencing choice of leadership strategy in a given situation		procedures		0%	- 13	20%	13	42	1
1.5	Match leadership strategies to the given group situation	•	4.6 Apply appropriate strategies for d with the differences associated wit diversity (e.g., racial, ethnic, gende aducational, perionality, social, an	(aer)						
1,6	Collaborate with others to accomplish goals	:	Strand S Planning and Managi a Career]
	Constatibute to the mount	:	S.1 Identify how personal interests, at and skills relate to choosing a care	ktien. 8% er	0%	12	115	2%	1%	
2	Contribute to teamwork	•	5.2 Investigate career options 5.3 Chart career using career planning		0%	0%	-15 -15	3%	12	
2.1	Demonstrate sensitivity to cultural, gender, and generational differences (in communication, interpersonal skills, and learning preferences)	:	5.4 Demonstrate skills needed to enter reenter the workforce	or 4%	0%	-1%	13	5%	-1%	-
2.2	Demonstrate concern for each team member and for team goals (e.g., provide encouragement.	•	5.5 Demonstrate job-keeping skills 5.6 Upgrade career skills	0%	0%	0%	0%	0%	0%	1
2.3	maintain a can-do attitude and common focus) Complete aspects of assigned tasks according to team-established procedures and within	:	5.7 Explore opportunities to create by	sinestes 2%	0%		1 04	1.		1
	2 specific timelines	•								
2.4	Employ group process techniques to solve problems, make decisions, build consensus, resolve or manage conflicts, construct compromises, support self-expression, and bring forth new ideas	:							a	ŝ
2.5	and opinions Evaluate the team's efforts	•								
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3	Choose ethical courses of action in all work assignments and personal interactions	:	Con	nectio	ns tr		aden	nic N	lode	k
		•	– the percen							
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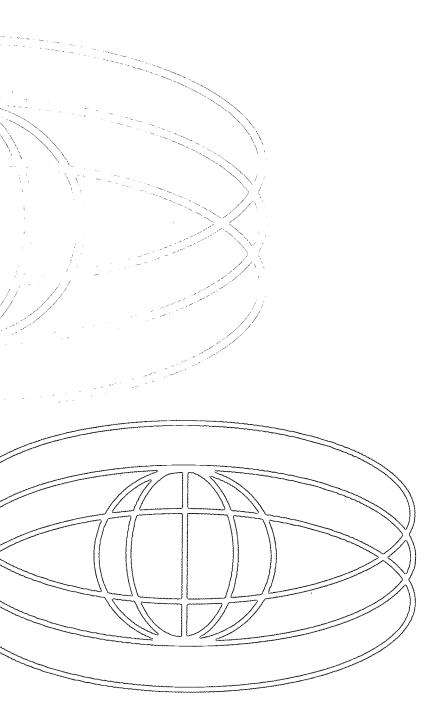
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Science



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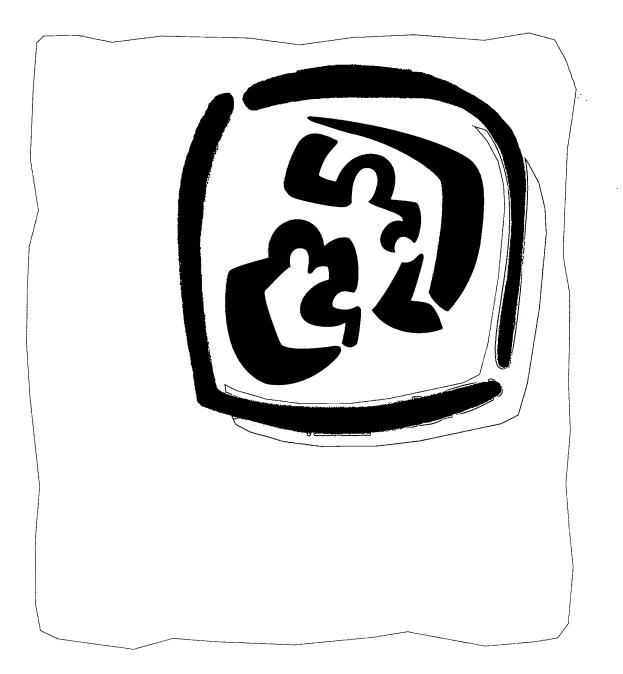






Solving Problems and Thinking Skillfully - Strand 1

Core ITAC







Expectation

All individuals, regardless of career choice, must be able to think for themselves; initiate action on their own; and direct, modify, and assess their own work. Employers seek lifelong learners who can locate and use information. The following competencies specify the knowledge, skills, and attitudes needed to develop the capacity to assess problems and situations, anticipate what might happen next, and continuously search for creative solutions.

Competencies

- 1.1 Solve problems and make decisions in work-related situations
- 1.2 Read for information and understanding
- 1.3 Use observation skills to analyze work-related situations
- 1.4 Apply mathematical processes
- 1.5 Apply measurement and spatial skills
- 1.6 Apply statistical analysis skills
- 1.7 Analyze critical data to guide work activities

- 1.8 Utilize scheduling techniques to ensure that jobs are completed by the stated due date
- 1.9 Demonstrate knowledge of the economy and how it functions as a whole
- 1.10 Demonstrate knowledge of the economy as a framework within which decisions are made by individuals and groups

Scenario

You are among a team of architects hired to plan the revitalization of a deteriorating historic area in your community. In spite of a rich ethnic history and residents who are committed to seeing the area thrive, the neighborhood is plagued by inadequate housing, abandoned buildings, lack of transportation, crime, and declining businesses. The City Planning Commission is prepared to provide resources to encourage economic development, recreation areas, and better housing. Create a design for the neighborhood and present your plans to the commission for their approval.

Guiding Questions

- What alternative uses should be considered for the land to best meet the needs of the community and its citizens?
- What historic and current economic, social, and environmental factors should be considered in the creation of the plan?
- What data regarding the needs and concerns of citizens and businesses in the community would inform the design of the neighborhood? How should this data be collected, analyzed, and presented?







Solve problems and make decisions in work-related situations

1.1.1		Identify factors that influence problem solving and decision making
1.1.2		Analyze the source of the problem or the situation requiring a decision
1.1.3		Generate possible alternatives
1.1.4		Analyze possible alternatives
1.1.5	ors:	Match problem-solving and decision-making processes to the situation
1.1.6	Indicators:	Use creative thinking processes to support solving problems and making decisions
1.1.7		Justify solution or decision with evidence to support or refute alternatives
1.1.8	Key	Formulate action plans
1.1.9		Implement action plans
1.1.10		Evaluate action taken
1.1.11		Monitor action plans
1.1.12		Adjust action plans as needed

1.2

1.1

1.2.1 1.2.2 1.2.3

1.2.4

1.2.5

Read for information and understanding

	Locate needed information in written materials using formatting cues, skimming, and scanning
ors:	Interpret written information, including manuals, graphs, and schedules
dicato	Unlock the meaning of unknown or technical vocabulary using standard strategies (e.g., context clues, prefixes, suffixes)
σ	clues, prenzes, sumzes,

Key Ind Locate key points, main ideas, relevant details, facts, and specifications in written materials

Judge the accuracy, appropriateness, style, and plausibility of information, proposals, or theories in materials read

1.3.1 1.3.2 1.3.3 1.3.4 1.3.5

1.3.6

1.3

Use observation skills to analyze work-related situations Collect data through sensory perceptions-seeing, hearing, tasting, touching, and smelling

Identify predictable patterns and relationships in given situations

- Monitor situations for deviations
- Identify patterns and relationships that create doubt, uncertainty, difficulty, or disappointment
- Devise appropriate responses to given situations
 - Apply past observations to present work-related situations



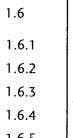
Strand 1 - Solving Problems and Thinking Skillfully - Core ITAC

1.4		Apply mathematical processes
1.4.1		Solve mathematical problems involving whole numbers and integers
1.4.2		Solve mathematical problems involving fractions, mixed numbers, decimals, percentages, ratios, and proportions
1.4.3	ors:	Apply systematic counting techniques and algorithmic thinking to represent, analyze, and solve problems
1.4.4	Indicators:	Use estimates to determine reasonableness of proposed problem solutions
1.4.5	pul	Use appropriate technology in the solution of math-related problems
1.4.6	Key	Describe problem situations using numerical, symbolic, and graphical representations
1.4.7		Apply combinations of algebraic techniques
1.4.8		Represent problem situations with geometric models (including applying the properties of figures)
1.4.9		Express mathematical ideas orally and in writing



Apply measurement and spatial skills

Demonstrate knowledge of units of measurement Key Indicators: 1.5.2 Select measurement techniques appropriate for given situation 1.5.3 Match measurement tools to measurement requirements 1.5.4 Determine degree of accuracy required for given situation 1.5.5 Analyze implications of the degree of accuracy of various measurements



Apply statistical analysis skills

Estimate probability using standard techniques and formulas Key Indicators: Analyze software options available for statistical analysis Select software option most appropriate for given situation Analyze statistical data using selected software 1.6.5 Make inferences or predictions based on data analysis 1.6.6 Represent statistical data using tables, charts, and graphs





1.7		Analyze critical data to guide work activities
1.7.1		Identify critical data needed
1.7.2	Key Indicators:	Determine the level of detail necessary for various situations according to prescribed procedures (including task analysis; procedural analysis; financial activities; personnel matters; customer contacts; noncompliance and violations; and/or deviations from normal operation of processes, equipment and instrumentation)
1.7.3	ey Ir	Ensure that documentation is complete and error-free and provides valid and reliable evidence
1.7.4	¥	Ensure that documentation is in compliance with established procedures
1.7.5		Analyze documentation to determine appropriate actions for specific situations
1.8		Utilize scheduling techniques to ensure that jobs are completed by the stated due date
1.8.1		Develop schedules for equipment maintenance
1.8.2	Key Indicators:	Develop schedules for materials production, handling, and distribution
1.8.3	licat	Develop meeting schedules
1.8.4	Ind	Distribute schedules to all concerned personnel
1.8.5	Key	Implement schedules as planned
1.8.6		Make changes in schedules as appropriate
1.9		Demonstrate knowledge of the economy and how it functions as a whole
1.9.1	1	Analyze how individuals and societies make choices to satisfy wants with limited resources
1.9.2	IS:	Analyze how factors of production (including land, labor, capital, and entrepreneurship) are used to produce goods and services
1.9.3	dicators:	Analyze how individuals and households exchange their resources for income in order to buy goods and services

- 1.9.4 Analyze how individuals and business firms use resources to produce goods and services to generate revenue
 - Identify the characteristics of command, market, and traditional economies
- 1.9.6 Analyze how all levels of government assess taxes in order to provide services

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1.10		Demonstrate knowledge of the economy as a framework within which decisions are made by individuals and groups
1.10.1		Determine opportunity costs and trade-offs
1.10.2		Identify key individuals and groups that make economic decisions at the local, state, national, and international levels
1.10.3	ors:	Identify the important roles that local, state, national, and international governments play in a global economy
1.10.4	Indicators:	Characterize how government decisions affect individuals
1.10.5		Identify how geographic factors affect the political and economic systems of other countries
1.10.6	Key	Analyze how national and international markets allocate goods and services
1.10.7		Analyze how resources, goods, and services are exchanged in national and international markets
1.10.8		Demonstrate knowledge of competition and how it affects national and international markets
1.10.9		Demonstrate knowledge of supply and demand and how it affects national and international markets

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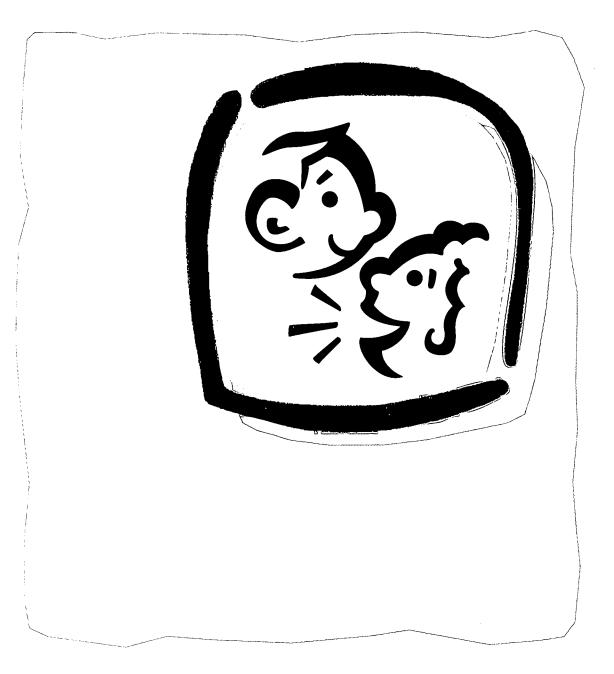
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Communicating Effectively - Strand







Expectation

Effective communication is essential to workplaces, communities, and families. Employees with positive communication skills contribute to organizational productivity, enhance interpersonal relationships with coworkers and clients, and create opportunities for promotion and advancement.

Competencies

- 2.1 Apply basic communication skills
- 2.2 Apply oral communication skills
- 2.3 Apply written communication skills
- 2.4 Apply technical writing skills
- 2.5 Apply listening skills
- 2.6 Apply demonstration/presentation skills

- 2.7 Apply graphic communication skills
- 2.8 Apply artistic communication skills
- 2.9 Convey information through multimedia presentations
- 2.10 Create graphs and charts
- 2.11 Build interpersonal relationships

Scenario

The Chamber of Commerce in your city would like to develop materials to attract new businesses to the community. Your public relations firm has been hired to create promotional materials that highlight your community's resources, rich ethnic history, and workforce. Create these materials and present them to a variety of community members, including business and industry representatives, private citizens, and civic leaders.

- **Guiding Questions**
- What communication tools should be used to convey this information to the target audiences?
- How will you use creative or artistic expression to communicate the information to the target audience?
- What historic and current events have contributed to the city's resources, ethnic diversity, and workforce?
- How will you work with community groups and representatives to build support for your promotional materials?





2.1		Apply basic communication skills
2.1.1		Guide communication activities using established rules for grammar, word usage, spelling, and sentence construction
2.1.2		Select communication style appropriate to audience and situation
2.1.3	ators:	Present messages in a form that assists recipient's understanding (e.g., speak and write clearly and concisely, write legibly)
2.1.4	Indicators	Locate needed information using communications reference tools (e.g., dictionary, thesaurus, style manual, word division guide)
2.1.5	Key	Interpret oral, written, and nonverbal messages
2.1.6		Follow written and oral instructions
2.1.7		Clarify messages received (e.g., through paraphrasing, questioning)
2.1.8		Communicate basic messages in a language other than English

Apply oral communication skills 2.2 2.2.1 Apply basic communication skills in communicating orally 2.2.2 Use nonverbal techniques to reinforce the intended verbal message Key Indicators: Support oral communication with creative attention-getters, analogies, examples, verbal 2.2.3 illustrations, etc. Supplement oral communication with other forms of communication (including graphic, written, 2.2.4 artistic) Demonstrate sensitivity to cultural diversity (e.g., accepted variations in distances between 2.2.5 speakers, use of eye contact, meaning of gestures; bias-free language) Adjust delivery according to perceived reception 2.2.6

2.3		Apply written communication skills
2.3.1		Apply basic communication skills in communicating in written form
2.3.2	LS:	Organize information into the appropriate format in accordance with standard practices (including prewriting, drafting, proofreading, editing/revising, preparing final copy/publishing)
2.3.3	Indicators	Incorporate creative and original elements (e.g., unique writing style, content, layout) in the written product
2.3.4	Key In	Supplement written communication with other forms of communication (including graphic, oral, artistic)
2.3.5		Demonstrate sensitivity to cultural diversity
2.3.6		Use technology (e.g., spelling checkers) to enhance accuracy





Apply technical writing skills

- Apply basic communication skills
- Consider topic in relation to the audience and purpose
- <ey Indicators:</pre> Determine when graphics, charts, and sketches are needed to support and clarify text
- Present information in a clear and concise manner

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2.5.1 2.5.2 2.5.3 2.5.4 2.5.5 2.5.6

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2.4.1

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2.4.3

2.4.4

Apply listening skills

Key Indicators:	Identify major points of the message (including key information, directions, specific details) Determine real needs or goals by attending to both verbal and nonverbal messages Differentiate between facts, opinions, and feelings Document message using standard note-taking techniques Overcome communication barriers Clarify communication by rephrasing statements, asking questions, showing empathy, and interpreting both verbal and powerbal information
	interpreting both verbal and nonverbal information

Apply demonstration/presentation skills 2.6 2.6.1Apply basic communication skills in presenting a demonstration/presentation 2.6.2 Select valid and reliable reference(s) 2.6.3 Organize content based on purpose and audience 2.6.4 Determine desirable format 2.6.5 Incorporate creative and original elements into the demonstration/presentation 2.6.6 Organize the components necessary to conduct a demonstration/presentation (including resources, equipment, handouts, graphics, advance organizers) <ey Indicators:</pre> 2.6.7 Incorporate media that support the purpose of the demonstration/presentation (including projection equipment, computer software) 2.6.8 Present the results of an investigation 2.6.9 Demonstrate the operation of equipment or facilities and/or given techniques and procedures 2.6.10 Communicate possible problems, processes, and solutions 2.6.11 Demonstrate knowledge of the topic(s) to be communicated 2.6.12 Use self-expression appropriate to the situation (including grooming, adjustment of behavior, expression of feelings and ideas) 2.6.13 Convey information to audience according to accepted business communication practices 2.6.14 Adjust communication according to audience feedback



Apply basic communication skills in communicating through graphics Ensure that all information is accurate and complete
Ensure that all information is accurate and complete
Specify graphics needed to support presentations
Communicate information using graphics in, print, poster, or transparency form
Communicate information using slides prepared with presentation software
Incorporate creative and original elements into graphics
Employ effective design techniques in development of graphics (including space, lines, shading, shaping, symbols)
Demonstrate sensitivity to cultural diversity

2.8 2.8.12.8.2

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Apply basic communication skills in communicating artistically Participate in a wide variety of experiences that expose self to an appreciation of the arts disciplines-dance, music, theater, and the visual arts Key Indicators: Analyze exemplary works through the relationship between artistic practices, products, and 2.8.3 perspectives 2.8.4 Interpret historical and modern artifacts Demonstrate artistic and creative techniques of production and performance 2.8.5 2.8.6

Create an original artifact or performance that demonstrates an understanding of history and culture

2.9 2.9.1 2.9.2

2.9.3

Convey information through multimedia presentations

- Organize content based on purpose and audience
- Evaluate which set of procedures, tools, or equipment will produce the desired results
- Key Indicators: Produce a presentation, including designing, creating, importing data and graphics, editing, formatting, and sequencing

2.9.4 Operate multimedia equipment

Apply problem-solving techniques to resolve problems encountered in the process of designing 2.9.5 and implementing multimedia presentations





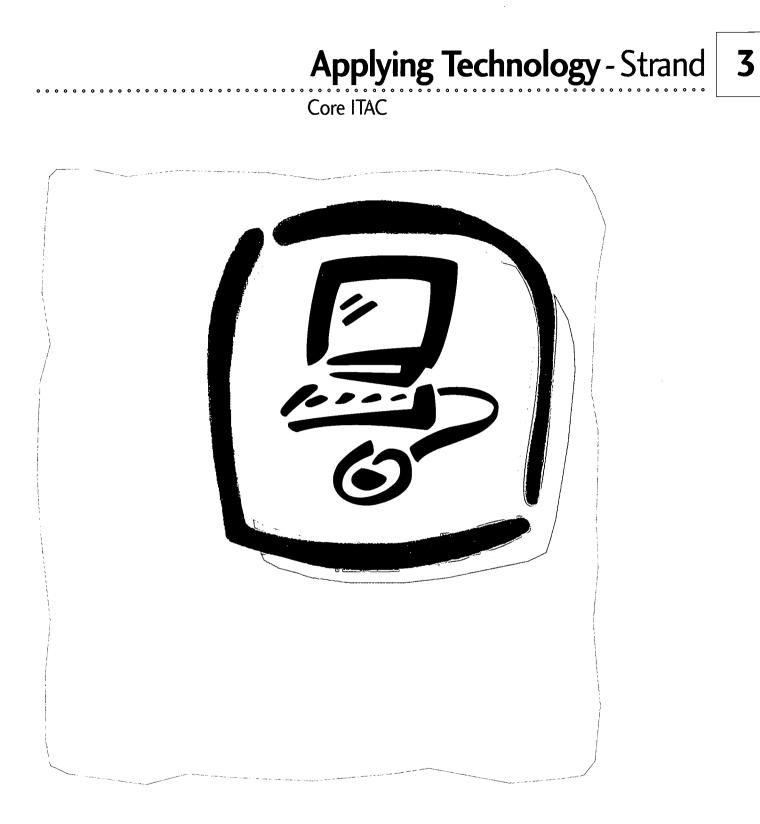
2.10		Create graphs and charts
2.10.1	l :s	Access sources of needed information
2.10.2	ato	Select data for inclusion
2.10.3	dic	Convert data into chosen graphical format
2.10.4	Key Indicators:	Ensure that the results are correctly represented (including font, scale, size)
2.10.5	$ $ \succ	Draw conclusions from information presented in graphs and charts
2.11		Build interpersonal relationships
2.11.1		Demonstrate knowledge of the components of effective communication
2.11.2	ors:	Relate to people of different ages, abilities, genders, cultures, and behavior styles
2.11.3	Key Indicators:	Demonstrate caring, empathy, and appreciation for others
2.11.4		Communicate personal feelings, needs, and ideas constructively
2.11.5	Key	Demonstrate effective listening skills
2.11.6		Manage conflict and stress

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Expectation

Technology influences every work environment. To be effective in today's workplace, individuals must be able to use the tools of technology to improve productivity and efficiency. Employers seek individuals who have developed technological skills and who stay abreast of the continuously changing technological environment.

Competencies

- 3.1 Demonstrate technological literacy
- 3.2 Access/transmit information using electronic communication systems
- 3.3 Demonstrate computer literacy
- 3.4 Use database software in workrelated situations
- 3.5 Use spreadsheet software in workrelated situations
- 3.6 Use word-processing software in work-related situations

Scenario

You own a company that sells and maintains a wide variety of office equipment and computer systems. A small, family-owned business has asked you to develop a proposal for equipping its organization with the technology necessary to improve its productivity and customer service. Prepare a proposal with your recommendations, and present it to the owners of the business to persuade them to accept your proposal.

Guiding Questions

- How have technological innovations influenced workplace performance?
- What information do you need about this business to determine its technological needs?
- How will you obtain that information?
- What hardware, software, and online services does this business need?
- What communication tools will you need to persuade this business to accept your proposal?





	Demonstrate technological literacy
	Demonstrate knowledge of the basic technology systems currently available (e.g., manufacturing technology, organizing and accessing information for technology)
ators:	Analyze the interplay of technology with social issues, gender issues, ethics, law, and government
Key Indicators	Identify the uses of technology in industry, education, the political arena, and day-to-day consumer affairs
له	Analyze the benefits and costs of new developments in technology
	Make decisions about the use of technology that improve performance in the workplace, in school, and in the home
	Access/transmit information using electronic
	communication systems
	Determine which systems are most appropriate for given situations
ors:	Transmit messages electronically
Kev Indicators:	Access information electronically (e.g., via information services, CD-ROMs, laser disks, videos, and the Internet)
e	Conduct searches electronically
	Participate in electronic discussion groups
	Demonstrate computer literacy
	Choose the hardware, software, and online services that will produce the desired results
cators:	Comply with ethical standards in the acquisition, organization, analysis, and communication of information
Indici	Keep informed of legal parameters regarding computers
Kev	Provide routine maintenance and repair of computer hardware and software
	Write basic computer programs for given purposes
	Use database software in work-related situations
	Demonstrate knowledge of the functions and features of database software
	Identify the type of data needed
Kev Indicators:	Determine the best database to aid in the collection, tabulation, synthesis, and evaluation of th particular data identified
Pu	Locate needed operations information using software documentation or help functions
Υe γ	Construct database for the specified purpose
	Access needed information from the database

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Select report design for presenting data

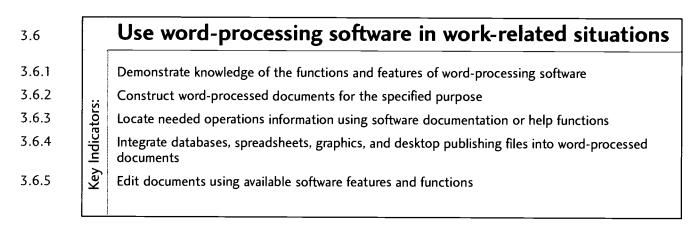


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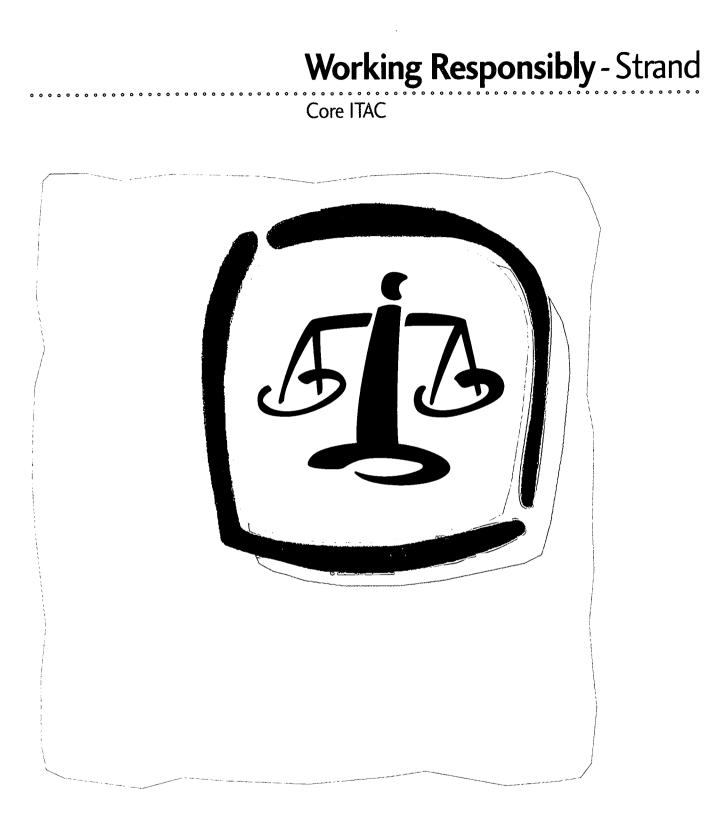
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Use spreadsheet software in work-related situations
Demonstrate knowledge of the functions and features of spreadsheet software
Identify the type of data needed
Determine the best spreadsheet to aid in the collection, tabulation, synthesis, and evaluation of the identified data Locate needed operations information using software documentation or help functions Construct spreadsheet for the specified purpose
Locate needed operations information using software documentation or help functions
Analyze data
Interpret results



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Expectation

Work organizations value employees who possess the ability to work with diverse groups of people and who are able to lead others toward the achievement of common goals. Individuals must demonstrate a positive work ethic—exhibiting honesty, initiative, and dependability. In addition, they should understand the importance of ethical conduct and the role of ethics in professional organizations and work environments.

Competencies

- 4.1 Demonstrate leadership
- 4.2 Contribute to teamwork
- 4.3 Choose ethical courses of action in all work assignments and personal interactions
- 4.4 Demonstrate the work ethic
- 4.5 Comply with the confidentiality requirements of workplace policies and procedures
- 4.6 Apply appropriate strategies for dealing with the differences associated with diversity (e.g., racial, ethnic, gender, educational, personality, social, and age)

Scenario

You are the director of human resources for a chain of retail stores. Lately there have been several incidents in which employees have treated customers rudely or unfairly because of the customers' racial or ethnic background. You have been asked to provide training for employees that will encourage an appreciation of diversity, positive relations with customers, and an understanding of the legal and economic implications of inappropriate behavior. Present the training plan to your company's management team for their approval.

Guiding Questions

- What are the benefits of multicultural diversity? What can business organizations do to support an appreciation of diversity?
- What are the contributions of various ethnic groups to businesses, communities, and society?
- What are the legal, social, and economic consequences of prejudicial or discriminatory actions for individuals, businesses, and communities?
- What laws prohibit discriminatory actions? In what context were these laws enacted?



	Demonstrate leadership
Key Indicators:	Identify a variety of leadership strategies
	Demonstrate leadership qualities
	Distinguish between the uses of leadership and management
Pul v	Analyze the factors influencing choice of leadership strategy in a given situation
Key	Match leadership strategies to the given group situation
	Collaborate with others to accomplish goals
	Contribute to teamwork
Key Indicators:	Demonstrate sensitivity to cultural, gender, and generational differences (in communication, interpersonal skills, and learning preferences)
	Demonstrate concern for each team member and for team goals (e.g., provide encouragement, maintain a can-do attitude and common focus)
	Complete aspects of assigned tasks according to team-established procedures and within specific timelines
	Employ group process techniques to solve problems, make decisions, build consensus, resolve or manage conflicts, construct compromises, support self-expression, and bring forth new ideas and opinions
	Evaluate the team's efforts
	Choose ethical courses of action in all work assignmen and personal interactions
	Establish a personal code of ethics
:S:	Ensure that personal code of ethics is consistent with the professional code of ethics of the chosen profession
dicato	Identify strategies that strengthen desirable character traits (including honesty, integrity, compassion, empathy, justice)
Key Indicators:	Identify consequences of unethical conduct
	Recognize conflict between personal/professional ethics and the ethics of others

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Demonstrate awareness of legal responsibilities (e.g., copyright laws, harassment, equity)

Identify strategies for responding to the unethical actions of individuals and organizations



4.3.6

4.3.7

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4.4		Demonstrate the work ethic
4.4.1	-	Exhibit desirable personal and professional attitudes and behaviors (including positive view of self and work, awareness of impact on others, responsibility, pride)
4.4.2	Indicators:	Exhibit desirable personal and professional work habits and behaviors (including punctuality, regular attendance, quality performance, meeting or exceeding of job expectations, self-motivation, honesty)
4.4.3	dica	Determine own role within the company's mission
4.4.4		Participate in required and voluntary professional development to benefit employer and self
4.4.5	Key	Improve performance for the benefit of employer and self
4.4.6		Display a sense of personal responsibility for the welfare of the company and colleagues (including health, safety, environmental concerns)
4.4.7		Distinguish between work ethics of various organizations, work groups, and cultures

4.5

Comply with the confidentiality requirements of workplace policies and procedures

4.5.1	rs:	Identify types of confidential information (including mail and information about personnel, customers, company)
4.5.2	ator	Maintain records on the distribution of information using established format and procedures
4.5.3	y Indic	Provide information only to authorized personnel, whether transmitted physically or via technology
4.5.4	Key	Inspect returned materials for completeness
4.5.5		Identify the consequences of a breach of confidentiality

4.6

4.6.5

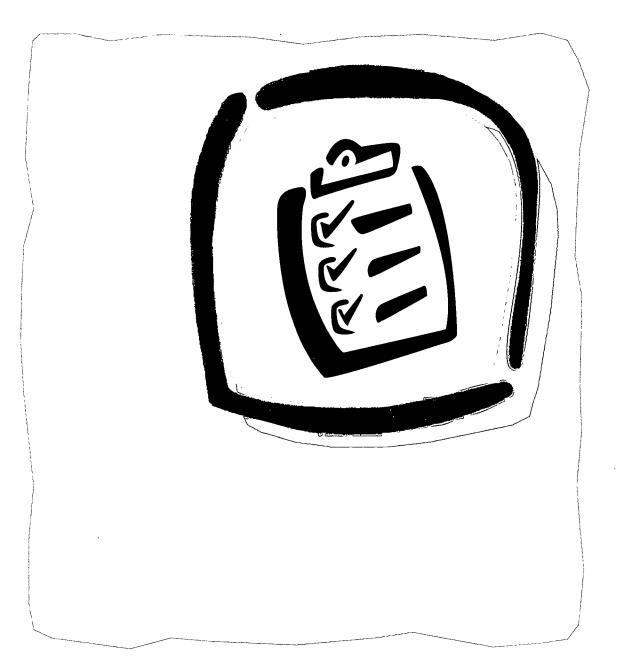
Apply appropriate strategies for dealing with the differences associated with diversity (e.g., racial, ethnic, gender, educational, social and age) 4.6.1 Recognize the differences associated with diversity and the implications of those differences Key Indicators: 4.6.2 Demonstrate effective interpersonal skills in working with others of different backgrounds 4.6.3 Express feelings, actions, and ideas respectfully 4.6.4 Identify appropriate strategies and solutions for dealing with cultural conflicts and differences

Demonstrate respect for diverse international business practices and etiquette



Planning and Managing a Career - Strand

Core ITAC





Expectation

Since work is a significant part of life, individuals need to be actively engaged in seeking a career that matches their interests, abilities, aptitudes, and skills. Career planning enhances the possibility that one's career path will lead to success and satisfaction in work. Employers seek individuals who know what they want from work and can effectively present their qualifications and skills through the job search process, including job applications and interviews. Throughout one's career, it is also important to seek continuous professional development opportunities.

Competencies

- 5.1 Identify how personal interests, abilities, and skills relate to choosing a career
- 5.2 Investigate career options
- 5.3 Chart career using career-planning skills
- 5.4 Demonstrate skills needed to enter or reenter the workforce
- 5.5 Demonstrate job-keeping skills
- 5.6 Upgrade career skills
- 5.7 Explore opportunities to create a business

Scenario

You have just been granted an interview for a position in the career area of your choice. Assuming you have completed all education and training necessary for this career, prepare to discuss why you selected the career, your long-range career goals, the skills you will bring to the workplace, and your long-term plan for professional development. Following the interview, obtain feedback about your ability to portray your interest and qualifications.

Guiding Questions

- What should you consider when planning a career?
- What are the implications of selecting a nontraditional career?
- What skills are needed to be successful in this career? How can you obtain those skills?
- Where can you obtain information about various careers and career opportunities?
- What communication skills will you use to convey your interest in and qualifications for this career?





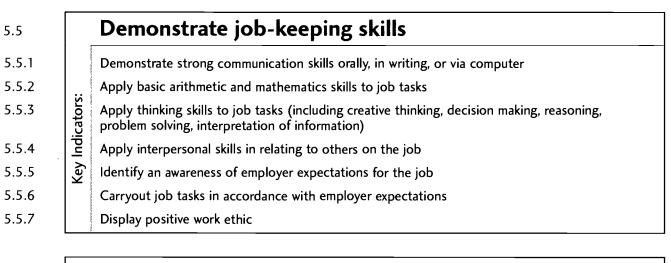
	Identify how personal interests, abilities, and skills relate to choosing a career
1.2	Determine own interests and aptitudes
Cato	Relate personal interests to academic and occupational skills
	Identify impact of abilities and skills on career development
Key Indicators	Identify how self-knowledge relates to making career choices
	Investigate career options
	Identify career options, including self-employment and nontraditional careers
	Identify the range of available career information sources
	Research knowledge, abilities, and skills needed in each occupation using a variety of resources (e.g., handbooks, career materials, labor market information, computerized career-information delivery systems, and role models/mentors)
	Select careers that best match interests and aptitudes
Kev Indicators	Analyze the impact of factors such as population, climate, employment trends, and geographic location on occupational choice
Kev	Assess differences in the wages, benefits, annual incomes, cost of living, and job opportunities associated with selected career options
	Identify potential conflicts between interest/aptitudes and career choices
	Identify how career choices influence family, personal life, and lifestyle
	Assess labor market information pertaining to career options
	Explore future trends and occupations in the world of work
	Chart career using career-planning skills
	Demonstrate use of career information
	Identify elements of career planning
	Summarize the educational requirements of various occupations
	Identify skills that apply to a variety of occupations
Kev Indicators	Identify challenges that may interfere with individual career plan (e.g., gender issues, misinformation, expectations of others, and conditions of labor market)
کور لام	Identify short-term and long-term goals for achieving career plan
	Develop a career plan
	Showcase interests, aptitudes, and skills utilizing a portfolio
	Annually review/revise the individual career plan



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Demonstrate skills needed to enter or reenter 5.4 the workforce 5.4.1 Apply knowledge of personal abilities, interests, and skills to the seeking of employment regionally, nationally, and globally Key Indicators: 5.4.2 Develop job-getting tools (including résumés, letters of application, portfolios) Demonstrate job-getting skills (including locating acceptable jobs, interviewing, completing a job 5.4.3 application, and interpreting an employee contract) 5.4.4 Demonstrate skill in a second language if required for the position 5.4.5 Maintain a portfolio demonstrating job competence and containing job-getting tools



5.6

5.6.1

5.6.2 5.6.3

5.6.4

- 5.6.5
- 5.6.6

Upgrade career skills

Identify personal and workplace changes that require upgrading of own skills

- Modify own career goals based on personal and workplace changes
- Key Indicators: Analyze various education/training options for securing needed upgrading
- Identify professional development opportunities
- Participate in professional development activities
- Recognize need for lifelong upgrading of career skills



5.7.1 5.7.2 5.7.3 5.7.4

5.7

5.7.5

5.7.6

Explore opportunities to create businesses

Identify an unmet need or opportunity for provision of a good or service

Identify potential target markets nationally and/or internationally

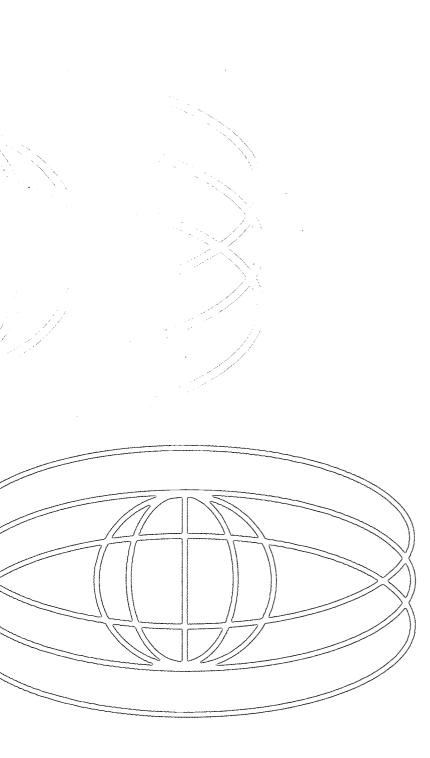
Identify factors that contribute to the success or failure of a business

Key Indicators: Evaluate the costs and benefits of future opportunities (e.g., renovations, improvements, expansions, addition of new products or services, international trade opportunities)

Evaluate entrepreneurship and intrapreneurship opportunities

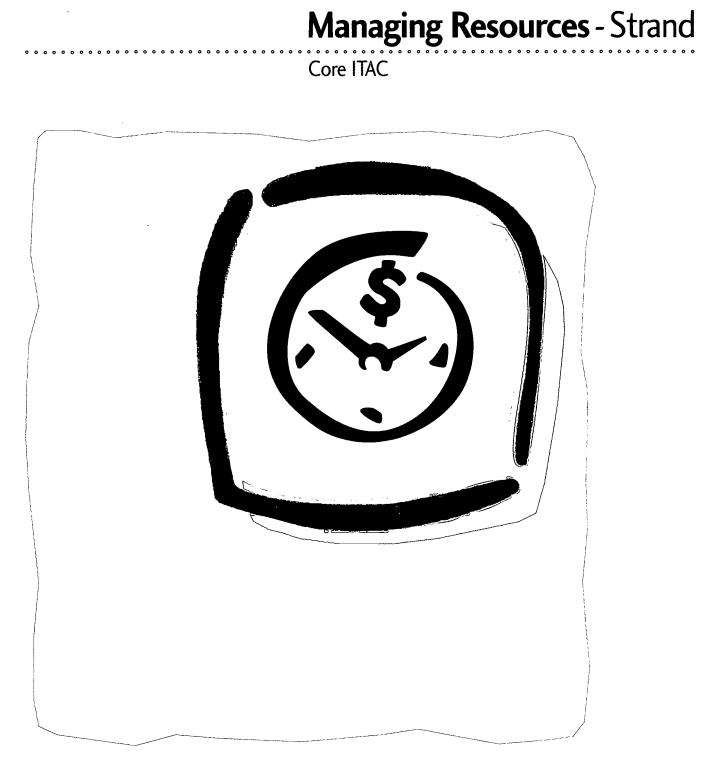
Identify components of a business plan, considering various factors for identified opportunities and marketing strategies (including population, climate, location, supply and demand, competition)













Expectation

In high-performance workplaces, all individuals must effectively manage a variety of resources—personal, financial, and environmental. Individuals' ability to maintain good health, contribute to a safe work environment, and manage time not only enhances personal well-being, but fosters the success of the organization or business as well.

Competencies

- 6.1 Apply self-management processes in the workplace
- 6.2 Use reference materials to obtain information appropriate to a given problem, topic, or situation
- 6.3 Maintain/promote wellness
- 6.4 Determine the impact of government regulations and business/industry procedures on the performance of particular work functions
- 6.5 Implement safety procedures and programs
- 6.6 Support the provision of first aid in accordance with company policy and procedures

- 6.7 Manage work and family responsibilities for the well-being of self and others
- 6.8 Determine resources needed to produce a given product or provide a given service
- 6.9 Ensure the quality of products and services
- 6.10 Utilize an inventory control system to track supplies, materials, and equipment
- 6.11 Make informed financial decisions

Scenario

Your city has just experienced an outbreak of E.coli bacteria, which made a large percentage of the population ill. As a member of the city health department staff, your job is to analyze the potential causes of the outbreak and to educate the citizens and businesses in the community so as to prevent future outbreaks. Develop and present several communication tools, such as a 60-second television advertisement and a brochure, that convey your recommendations to prevent further contamination and illness.

Guiding Questions

- What food-handling and production practices contribute to E.coli contamination?
- What are the consequences of unsafe practices for individuals, businesses, and the community as a whole?
- What government regulations and business/industry policies impact the quality and safety of the foods we eat?
- How can individuals and families maintain good health and prevent E.coli contamination?





	Apply self-management processes in the workplace
	Develop a system for organizing work
S	Apply time-management skills
ator	Apply anger-management skills
Indicators:	Apply stress-management skills
Key li	Arrange work environment based on the principles of ergonomics
Ŷ	Maintain a work area conducive to productivity (e.g., neat, orderly)
	Manage resources to support achievement of goals
	Use reference materials to obtain information appropriate to a given problem, topic, or situation
ŝ	Obtain needed technological and informational reference materials

- 6.2.1 Solution needed technological and informational reference materials
 6.2.2 Collect information from selected references
 6.2.3 Evaluate the validity and reliability of the information obtained
 6.2.4 Organize information for use in problem solving, decision making, or communications
- 6.2.5 \checkmark Apply information to workplace situations

	Maintain/promote wellness
	Recognize positive and negative influences on wellness (including social activities, sports, hobbies, environment, health, emotions, economics)
Indicators:	Participate in the arts disciplines and/or extracurricular activities (including dance, music, theater, visual arts, sports) that promote wellness and balance within an individual
Key Indi	Follow wellness principles that result in significant, measurable improvements in own overal health condition and the health condition of peer(s)
ľž	Monitor health and health parameters
	Act on environmental issues that influence wellness

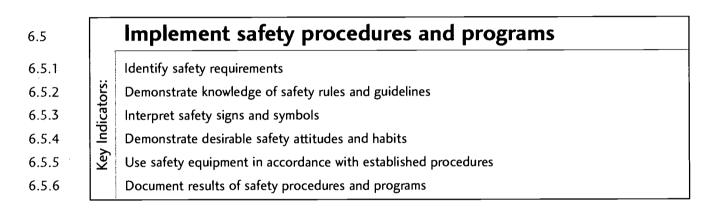




6.4

Determine the impact of government regulations and business/industry procedures on the performance of particular job functions

6.4.1		Identify the purpose of government regulations and their impact on the management of resources
6.4.2	ndicators:	Differentiate among federal, state, and local regulations and local business and industry procedures
6.4.3	Ind	Identify the various agencies involved in government oversight
6.4.4	Key	Identify which regulations or guidelines take priority in a given situation
6.4.5		Locate information about the required process(es) for implementing regulations
6.4.6		Comply with regulations in the handling of materials, services, resources, and/or work activities (including inspection or self-monitoring)



Support the provision of first aid in accordance with company policy and procedures

6.6.1 Identify supplies and equipment needed in emergency situations Key Indicators: 6.6.2 Locate supplies and equipment needed in emergency situations Follow established procedures for the administration of first aid until official help arrives 663 6.6.4 Analyze the impact of stress throughout an emergency situation 6.6.5 Practice universal precautions during first aid procedures (including those related to bloodborne pathogens, confined spaces, emergency egress, fire safety, hearing conservation)

6.7

6.6

Manage work and family responsibilities for the well-being of self and others

6.7.1 6.7.2

6.7.3

Explore the meaning of work and the meaning of family

- <ey Indicators:</pre> Analyze how work life is affected by families and how families are affected by work life
- Implement strategies for balancing work and family roles





6.8

Determine resources needed to produce a given product or provide a service

6.8.1		Identify the different types of resources involved in the production of a product or provision of
6.8.2		a service (e.g., financial, human, material, equipment)
6.8.3	::	Create a management plan for the allocation of financial resources to meet financial goals
6.8.4	Indicators:	Plan for the appropriate allocation and use of materials and equipment
6.8.5	lica	Plan for the allocation and use of human resources
		Plan for the allocation and use of information and technology needed to make and support
6.8.6	Key	decisions
6.8.7	_	Plan for the allocation and use of natural resources
		Plan for the allocation and use of space so as to make the best use of facilities for goal achievement

	Ensure the quality of products and services
	Identify the importance of individual and organizational productivity in the workplace and how it affects the profitability of the business
	Determine the quality- and quantity-control standards and procedures required to produce a specific product or provide a specific service
S:	Inspect the production of the product or provision of the service to assure quality levels
atoi	Monitor production of products and provision of services
Key Indicators:	Select equipment and raw materials that will support quality in the process of producing a product or providing a service
Xe	Interpret quantitative and qualitative records to identify problems and provide a basis for making decisions about the production of products and provision of services
	Provide appropriate documentation regarding the quality of products and services
	Identify corrective actions needed to improve the quality of products and services
	Create new methods for improving the quality of products and services

6.10.1
6.10.2
6.10.3
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6.11		Make informed financial decisions
6.11.1	-	Identify the need for personal financial management records
6.11.2		Create a budget
6.11.3		Evaluate the effectiveness of the budget
6.11.4	ors:	Demonstrate knowledge of how credit affects personal/family finances
6.11.5	Indicators:	Identify the steps to follow to avoid credit problems
6 .11.6	lnd	Make informed consumer choices in response to personal needs and wants
6.11.7	Key	Identify the factors that influence consumer decisions (e.g., advertisements, peer groups, price, location)
6.11.8		Recognize the value of company benefits and the importance of retirement planning
6.11.9		Identify the costs and benefits for individuals of various types of taxation at the local, state, and federal levels



Academic Connections in Core ITAC

Academic Connections answer the question, "What knowledge and skills from the Ohio Compentency-Based Education (CBE) Models are essential to the achievement of the Core competencies?" The academic content represented in the ITAC includes the subject areas from six models:



The Arts



Mathematics



Social Studies



Language Arts



Foreign Language



Science

These connections were identified by relating the content of the competencies in the Core ITAC strands to essential content from the objectives in the Ohio CBE Models. ITAC key indicators for each competency were used to clarify the nature and specificity of the connection. Subject-matter experts in each academic area verified the connections.

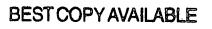
The following chart is a summary of the percentages of connections for each model. For specific connections between the core competencies and objectives in each model, visit the following website: <www.cete.org/products>. This summary does not represent all possible opportunities for interdisciplinary curriculum development. Many other connections could be made during the instructional process through authentic projects or workplace situations that involve related content.



Academic Connections in Core ITAC

The chart below illustrates the relationship between the Core ITAC and the objectives in Ohio's Competency-Based Education (CBE) Models. Each column represents the percent of the total number of CBE objectives, PreK–12 grade, that are related to each core competency.

Сог	re ITAC	Academic Models						
Con	npetencies	Percent of Model Relating to Core ITAC						
		5				E		
		The Arts	Math	Social Studies	Language Arts	Foreign Language	Science	
Strai	nd 1 — Solving Problems and Thinking Skillfully							
1.1	Solve problems and make decisions in work-related situations	52%	16%	4%	24%	0%	54%	
1.2	Read for information and understanding	5%	1%	19%	. 33%	5%	32%	
1.3	Use observation skills to analyze work-related situations	27%	5%	1%	42%	2%	39%	
1.4	Apply mathematical processes	0%	62%	1%	<1%	4%	24%	
1.5	Apply measurement and spatial skills	0%	22%	1%	0%	4%	28%	
1.6	Apply statistical analysis skills	<1%	9%	<1%	1%	0%	12%	
1.7	Analyze critical data to guide work activities	5%	0%	1%	1%	0%	27%	
1.8	Utilize scheduling techniques to ensure that jobs are completed by the stated due date	<1%	0%	0%	3%	0%	1%	
1.9	Demonstrate knowledge of the economy and how it functions as a whole	6%	0%	6%	1%	2%	0%	
1.10	Demonstrate knowledge of the economy as a framework within which decisions are made by individuals and groups	3%	2%	6%	1%	4%	0%	
Stra	nd 2 — Communicating Effectively							
2.1	Apply basic communication skills	79%	3%	1%	67%	50%	20%	
2.2	Apply oral communication skills	14%	5%	0%	18%	37%	10%	
2.3	Apply written communication skills	5%	2%	0%	29%	13 %	9%	
2.4	Apply technical writing skills	2%	0%	0%	1%	0%	5%	
2.5	Apply listening skills	4%	0%	1%	21 %	8%	9%	
2.6	Apply demonstration/presentation skills	20%	<1%	0%	6%	7%	4%	
2.7	Apply graphic communication skills	12%	9%	2%	4%	5%	5%	
2.8	Apply artistic communication skills	96%	<1%	1%	27%	8%	3%	
2.9	Convey information through multimedia presentation	13%	0%	0%	2%	1%	4%	
2.10	Create graphs and charts	3%	10%	2%	4%	5%	6%	
2.11	Build interpersonal relationships	4%	0%	4%	· 5%	11%	7%	



Со	re ITAC	Academic Models						
Cor	npetencies	Percent of Model Relating to Core ITAC						
		5				E		
		The Arts	Math	Social Studies	Language Arts	Foreign Language	Science	
Stra	nd 3 — Applying Technology							
3.1	Demonstrate technological literacy	5%	1%	1%	0%	0%	8%	
3.2	Access/transmit information using electronic communication systems	<1%	0%	0%	2%	11 %	2%	
3.3	Demonstrate computer literacy	4%	2%	0%	4%	3%	4%	
3.4	Use database software in work-related situations	0%	0%	0%	<1%	0%	3%	
3.5	Use spreadsheet software in work-related situations	0%	<1%	0%	0%	0%	2%	
3.6	Use word-processing software in work-related situations	<1%	0%	0%	2%	2%	2%	
Stra	nd 4 — Working Responsibly							
4.1	Demonstrate leadership	0%	0%	2%	1%	0%	4%	
4.2	Contribute to teamwork	20%	0%	5%	23%	4%	5%	
4.3	Choose ethical courses of action in all work assignments and personal interactions	0%	0%	<1%	1%	0%	4%	
4.4	Demonstrate the work ethic	<1%	0%	1%	13%	3%	4%	
4.5	Comply with the confidentiality requirements of workplace policies and procedures	0%	0%	0%	<1%	0%	1%	
4.6	Apply appropriate strategies for dealing with the differences associated with diversity (e.g., racial, ethnic, gender, educational, personality, social, and age)	20%	0%	8%	20%	8%	4%	
Strai	nd 5 — Planning and Managing a Career							
5.1	Identify how personal interests, abilities, and skills relate to choosing a career	8%	0%	1%	11 %	2%	1%	
5.2	Investigate career options	6%	. 0%	0%	<1%	3%	1%	
5.3	Chart career using career-planning skills	2%	0%	0%	<1%	2%	1%	
5.4	Demonstrate skills needed to enter or reenter the workforce	4%	0%	<1%	1%	5%	<1%	
5.5	Demonstrate job-keeping skills	0%	0%	0%	8%	<1%	0%	
5.6	Upgrade career skills	0%	0%	0%	0%	0%	0%	
5.7	Explore opportunities to create businesses	2%	0%	3%	0%	1%	0%	



Со	re ITAC	Academic Models						
Cor	npetencies	Percent of Model Relating to Core ITAC						
		The Arts	Math	Social Studies	Language Arts	Foreign Language	Science	
Strar	nd 6 — Managing Resources							
6.1	Apply self-management processes in the workplace	5%	0%	3%	8%	8%	3%	
6.2	Use reference materials to obtain information appropriate to a given problem, topic, or situation	12%	0%	1%	7%	<1%	4%	
6.3	Maintain/promote wellness	<1%	0%	0%	8%	1%	1%	
6.4	Determine the impact of government regulations and business/industry procedures on the performance of particular work functions	0%	0%	4%	0%	0%	0%	
6.5	Implement safety procedures and programs	12%	0%	0%	<1%	0%	3%	
6.6	Support the provision of first aid in accordance with company policy and procedures	0%	0%	0%	0%	0%	0%	
6.7	Manage work and family responsibilities for the well-being of self and others	0%	0%	0%	<1%	0%	<1%	
6.8	Determine resources needed to produce a given product or provide a given service	11 %	0%	6%	2%	0%	1%	
6.9	Ensure the quality of products and services	22%	0%	0%	8%	0%	. <1%	
6.10	Utilize an inventory control system to track supplies, materials, and equipment	0%	0%	0%	<1%	0%	<1%	
6.11	Make informed financial decisions	0%	0%	2%	<1%	0%	0%	



Core ITAC Acknowledgments

The Vocational Instructional Materials Laboratory extends thanks and appreciation to the many representatives of business, industry, labor, and community organizations who contributed their time and expertise to the identification and verification of competencies.

The following panel participants verified the technical and academic competencies in the Core ITAC:

Laura Berk, The Center for Manufacturing Excellence, Toledo, Ohio Kay Briggs, Coalition of Neighborhoods, Cincinnati, Ohio Walter R. Cates, Sr., Main Street Business Association, Columbus, Ohio Cap Clegg, Columbus Financial Concepts, Dublin, Ohio Randy Deatherage, Agnew Farm Equipment, Youngstown, Ohio Timothy A. Ely, Beacon Electric, Cincinnati, Ohio Diane Findley, RN, Paul E. Detty MD Inc., Lancaster, Ohio Sheila Kane, The Andersons General Store, Columbus, Ohio Keith Meske, Educable TV 25, Columbus, Ohio Sandy O'Connor, Clark County Dept. of Human Services, Springfield, Ohio Joyce E. Odor, Columbus Public Schools, Columbus, Ohio James H. Orsborn, American Electric Power, Columbus, Ohio Robert A. Osterling, Hy-Level Industries, Cleveland, Ohio Charlie Pinter, Kroger, Gahanna, Ohio Scott J. Wallace, Red Roof Inns, Inc., Hilliard, Ohio Van S. White, Human Resources Consultant, Cincinnati, Ohio Morris Williams, Coalition of Neighborhoods, Cincinnati, Ohio

The following educator review panel was responsible for reviewing the integrated technical and academic competencies in the Core ITAC:

Virginia Ballinger, Ohio Department of Education, Columbus, Ohio Heather Boggs, Ohio Department of Education, Columbus, Ohio David Cairns, Warren County JVSD, Lebanon, Ohio Denise P. Clapp, Hilliard Davidson High School, Hilliard, Ohio Carmen R. Giebelhaus, Ohio Department of Education, Columbus, Ohio Karen P. Heath, Ohio Department of Education, Columbus, Ohio Peggy Kasten, Ohio Department of Education, Columbus, Ohio Abbejean Kehler, Ohio Council on Economic Education, Columbus, Ohio Betty Kulich, Fort Hayes Metro Education Center, Columbus, Ohio Jerry Mahl, EHOVE Career Center, Milan, Ohio Kent J. Minor, Ohio Department of Education, Columbus, Ohio Roberta Newcomer, Ohio Department of Education, Columbus, Ohio Linda Thomas, Hayes Technical School, Grove City, Ohio Susan Washam Witten, Ohio Department of Education, Columbus, Ohio

The following individuals provided technical assistance in identifying competencies, writing statements of expectation, and developing scenarios for the Integrated Technical and Academic Competencies (ITAC). Their assistance is much appreciated.

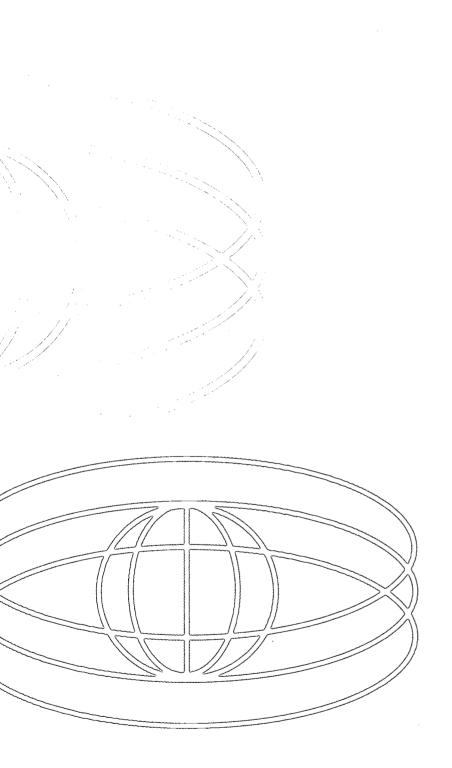
Dr. Ruth Loring, Center for Occupational Research and Development, Waco, Texas

Jane Sanborn, MPR Associates, Inc. and the National Center for Research in Vocational Education, Berkeley, California

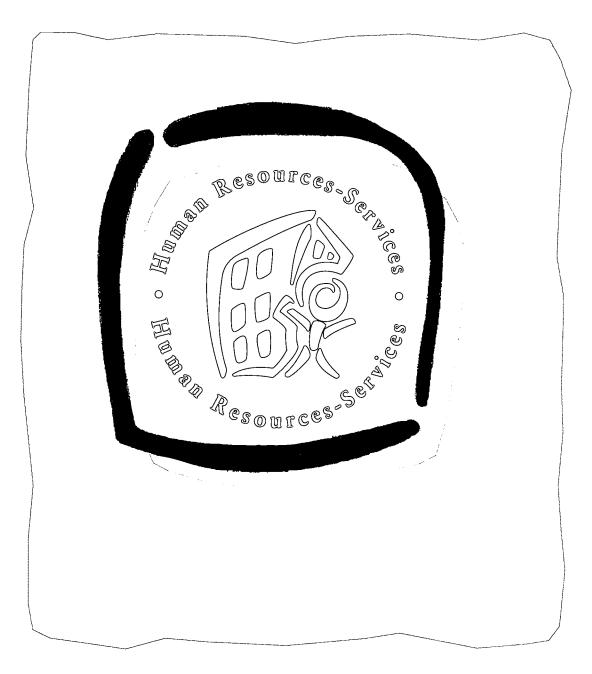


Dr. Joyce Malyn-Smith, Education Development Center, Inc., Newton, Massachusetts.

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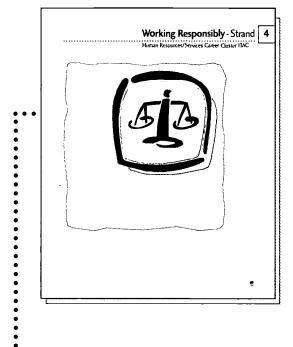




Components of Career Cluster ITACs

Career Clusters:

- Arts & Communications
- Business & Management
- Industrial & Engineering Systems
- Human Resources/Services
- Environmental & Agricultural Systems
- Health Services



• Each strand in a Career Cluster ITAC has an introduction page which identifies the strand (in words and by icon) and the career cluster. These pages also appear in the Core ITAC.



Solving Problems and Thinking Skillfully



Working Responsibly



Communicating Effectively



Planning and Managing a Career



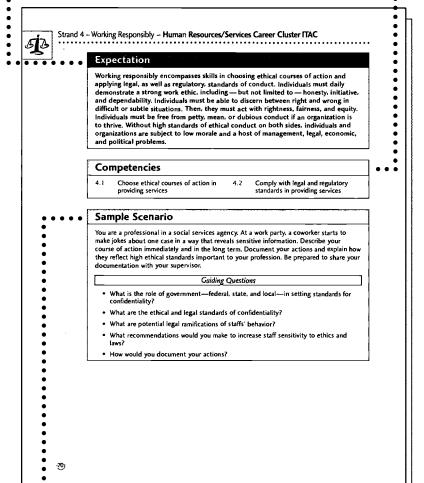
Applying Technology



Managing Resources

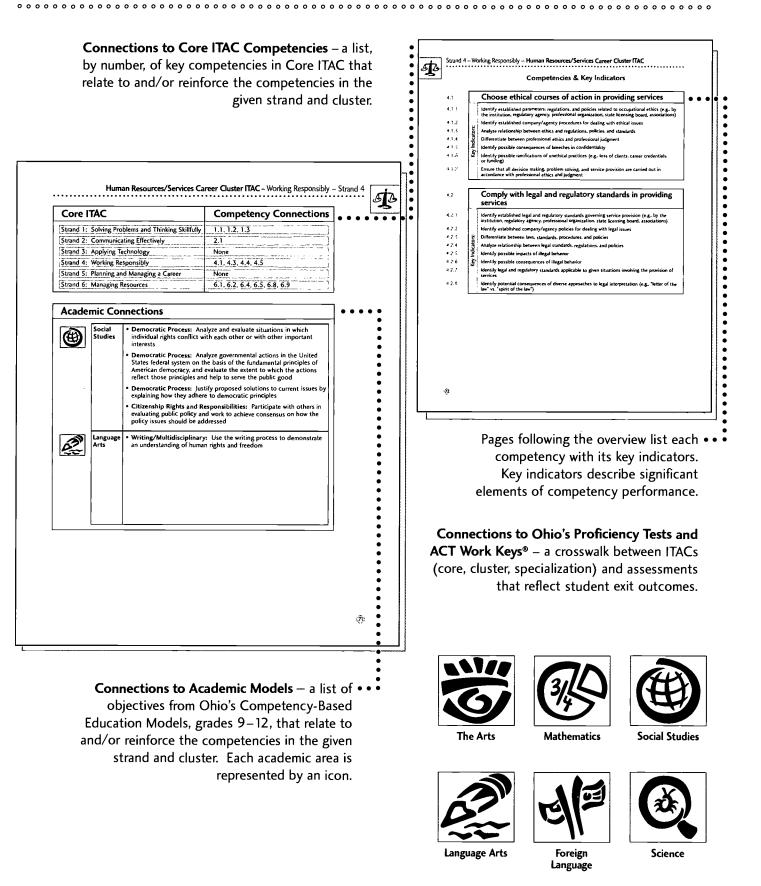
• **Expectation** – a statement of desired workplace behaviors and their importance in the world of work.

Competencies – observable and measurable knowledge, skills, and attitudes essential to achievement of the expectation.



 Sample Scenario – a real-life workplace situation requiring learners to apply the knowledge and skills reflected in the strand competencies.

Sample Guiding Questions – targeted questions to use in focusing learners' attention on knowledge and skills covered in the scenario.

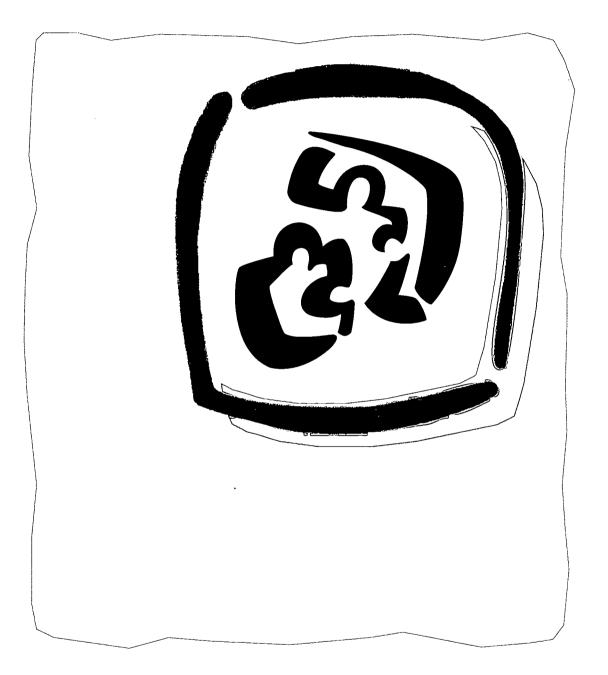




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Solving Problems and Thinking Skillfully - Strand Human Resources/Services Career Cluster ITAC







Strand 1 – Solving Problems and Thinking Skillfully – Human Resources/Services Career Cluster ITAC

Expectation

All individuals, regardless of career choice, must be able to think for themselves; initiate action on their own; and direct, modify, and assess their own work. Employers seek lifelong learners who can locate and use information. The following competencies — focusing on analyzing the relationship between social systems and human resources/services, analyzing funding sources, matching services and delivery with clients, and improving human resources/services — specify the knowledge, skills, and attitudes needed to develop the capacity to assess problems and situations, anticipate what might happen next, and continuously search for creative solutions.

Competencies

- 1.1 Analyze the relationship between social systems and human resources/services
- 1.2 Analyze funding sources for human resources/services
- 1.3 Match services and how they are provided to the nature of the client

(e.g., desires, needs, interests, developmental stage, lifestyle, cultural background, special needs, and strengths)

- 1.4 Improve human resources/services
- 1.5 Analyze trends and issues in human resources/services

Sample Scenario

You are a caseworker for the American Red Cross and have been asked to assist victims of a major flood in another community. You have been assigned three families who have lost all belongings. You need to assist them in meeting their immediate and long-term needs. It is your responsibility to create the initial case files and management plans to document ongoing communications with each family. Later, as part of a team, you will review caseworkers' files and management plans to analyze ways to improve services. Present your recommendations for improvement of services to your area director and governing board.

Guiding Questions

- What other community, state, and national resources/agencies should be involved in this crisis intervention?
- What data should be gathered to analyze the families' needs?
- Once you have created family profiles, how will you match the needs of the families to agencies that provide the needed services/products?
- What political and economic factors might influence the response of social agencies to these needs?
- What process should the team use to assess case files and management plans in order to improve services?



Human Resources/Services Career Cluster ITAC – Solving Problems and Thinking Skillfully – Strand 1



Core ITAC	Competency Connection		
Strand 1: Solving Problems and Thinking Skillfully	1.1, 1.2, 1.3, 1.7, 1.9, 1.10		
Strand 2: Communicating Effectively	None		
Strand 3: Applying Technology	None		
Strand 4: Working Responsibly	4.1, 4.2, 4.3, 4.4, 4.5, 4.6		
Strand 5: Planning and Managing a Career	None		
Strand 6: Managing Resources	6.2, 6.4, 6.8, 6.9, 6.11		

The Arts	• Historical, Cultural, and Social Contexts: Explore the human experience as it relates to an arts form in terms of symbols and practices, reflecting on change and consistency across cultures and times
	• Historical, Cultural, and Social Contexts: Investigate how the arts are an index to the social values and accomplishments of a community
Math	• Algebra: Describe measures of central tendency, mean, median, mode, and variance, algebraically and graphically
	• Data Analysis and Probability: Read, interpret, and use tables, charts, and graphs to identify patterns, note trends, draw conclusions, and make predictions
	• Data Analysis and Probability: Design a statistical experiment to study a problem, conduct the experiment, and interpret and communicate the outcomes
Social Studies	• American Heritage: Create explanations of how current issues originated and developed
	• Decision Making and Resources: Discuss how activities of government impact economic activity
	• Democratic Processes: Explain the relationship of public policy to political processes, and interpret policy in light of the formal and informal processes taking place within a constitutional framework
	 Citizens Rights and Responsibilities: Participate with others in evaluating public policy, and work to achieve consensus on how the policy issues should be addressed
	• People in Societies: Compare the developments of three cultures on three different continents from 1919 to the present with regard to art, literature, and music; customs, traditions, and social develop ments; economic systems; governments; philosophical and religious ideas; relationship to the environment; science and technology
	• People in Societies: Examine the contributions of various cultural groups and representative individuals to American society



Acade	mic Cor	nections
	Language Arts	 Reading/Meaning Construction: Use reading as a possible problem-solving strategy to clarify personal thinking and understanding Reading/Multidisciplinary: Explore and analyze a variety of cultural elements, attitudes, beliefs, and value structures by reading and experiencing our diverse literary tradition, including works by men and women of many racial, ethnic, and cultural groups
	Foreign Language	 Cultural Knowledge: Develop sensitivity to cultural differences Cultural Knowledge: Describe common behavior patterns, beliefs, and attitudes of people in the target culture(s) Insights into the Nature of Language and Culture: Explore and describe the major forces that influence culture and cultural change in the home and target cultures (e.g., media, politics, economics, technology, etc.)
	Science	 Scientific Inquiry: Construct and test models of physical, biological, social, and geological systems Conditions for Learning Science: Investigate social issues with a scientific perspective (e.g., human rights, wellness, economics, futurism, environmental ethics) Conditions for Learning Science: Formulate processes for determining when questions are appropriate for scientific investigation Conditions for Learning Science: Determine the validity of research conclusions in relation to the design, performance, and results Applications for Science Learning: Predict various scenarios and propose solutions to community issues using scientific information (e.g., actuarial tables, census data, topographic maps, incidence data, climatic data) Applications for Science Learning: Use scientific evidence to consider options and formulate positions about the health and safety of others and self Scientific Knowledge: Formulate models and hypotheses about patterns in the natural world (e.g., social behavior, molecular structure, energy transformation, entropy, randomness, aging, chaos, hormonal cycles)





Competencies & Key Indicators

Analyze the relationship between social systems and 1.1 human resources/services Demonstrate knowledge of the evolution of social systems and institutions into their present-1.1.1 day roles Key Indicators: Analyze the roles of social agencies in providing leadership and service 1.1.2 Analyze interrelationships between public and private human resource/service institutions 1.1.3 Analyze how politics and economics influence human resources/services (e.g., social services, 1.1.4 law enforcement, education) and systems (e.g., families, coworkers, neighborhoods) 1.1.5 Analyze how public policy is shaped by public opinion

1.2 1.2.1 1.2.2 1.2.3 1.2.4

Analyze funding sources for human resources/services

Identify available government funding sources for human resources/services (e.g., law enforcement, firefighting, corrections, early childhood education, elementary and secondary education, Key Indicators: home care and assisting) Identify available funding sources (e.g., Small Business Administration, bank loans, private investors, foundations, endowments) for public and private human resource/service enterprises Determine requirements or recommended procedures for securing funding from various sources Analyze how politics and economics influence funding for human resources/services 1.2.5 Differentiate between public and private economic funding



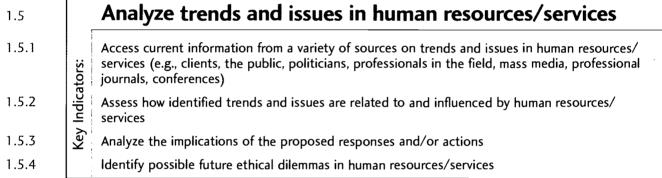


1.3		Match services and how they are provided to the nature of the client (e.g., desires, needs, interests, developmental stage, lifestyle, cultural background, special needs, and strengths)
1.3.1		Demonstrate knowledge of human development stages (e.g., physical, social, emotional, intellectual)
1.3.2	3.2	Demonstrate knowledge of the human life cycle from birth to death
1.3.3		Demonstrate knowledge of diverse lifestyles and cultures in today's world
1.3.4		Demonstrate knowledge of the effect of social, economic, and political conditions upon individuals, families, and groups
1.3.5		Demonstrate knowledge of the ways in which family structure, dynamics, and culture impact individuals, families, and groups
1.3.6	ators:	Demonstrate knowledge of the interrelationships between individuals, families, communities, and other social systems
1.3.7	Key Indicators:	Analyze how family, human development, and dynamics affect provision of various services (e.g., selection of appropriate behavior, interaction/teaching/counseling)
1.3.8	Key	Analyze how human resources/services can be adapted to address issues of cultural diversity and special needs (e.g., cultural sensitivity, responsive outreach options)
1.3.9		ldentify formal and informal assessment tools for determining clients' specific desires, interests, needs, developmental stage, lifestyle, cultural background, special needs, and strengths
1.3.10		Identify factors limiting assessment activities (e.g., nature of specific service; privacy issues; limits of own training in human psychology; conflicts between client desires and reality of situation, as in corrections facilities)
1.3.11		Select formal and informal assessment tools appropriate for the situation (e.g., the client, the perceived situation, the reality of the situation)
1.3.12		Gather needed information

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	Identify methods for securing information about trends in user base and in the occupation
	Select data-gathering and evaluation methods to use
	Gather needed information
ors:	Analyze data to determine trends, changes, and needs in user base
Indicators:	Analyze data to determine changes, trends, and needs in given human resources/services occupations
Key I	Summarize analysis results
	Develop plan for improving services and service delivery in accordance with data analysis and ongoing evaluations
	Ensure collaboration with clients and with other services, agencies, and organizations in the development of improvement plans

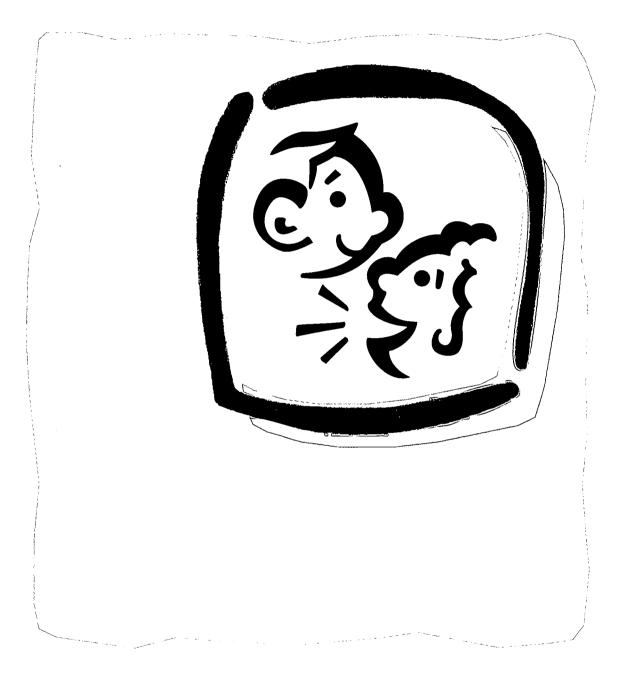
















Expectation

Effective communication is essential to workplaces, communities, and families. Strong oral and written communication skills are vital in human resources/services occupations. Employees with strong communication skills contribute to organizational productivity, enhance interpersonal relationships with coworkers and clients, and create opportunities for promotion and advancement.

Competencies

- 2.1 Apply oral communication skills in interacting individually with clients, colleagues and the members of the general public
- 2.2 Apply oral communication skills in interacting with clients, colleagues and the general public in group settings
- 2.3 Apply written communication skills in interacting with clients, colleagues, and the general public, both individually and in group settings
- 2.4 Apply communication skills in interacting with clients, colleagues, and members of the general public with special needs

Sample Scenario

You are a hairstylist and manager for a full-service chain salon in a culturally diverse area (mainly African American and Hispanic). Recently, you have had to deal with several unhappy clients. Their complaints include dissatisfaction with how their hair turned out, embarrassment or anger at having to listen to insensitive ethnic jokes, and frustration at having to wait past their scheduled appointment time. You need to develop and implement a plan to address and prevent clients' dissatisfactions. The chain's management supports your effort and wants you to present your plan to other salon managers so they can replicate it.

Guiding Questions

- What information do you need to collect in order to create an effective plan? From whom?
- What needs to be done to prevent dissatisfactions and enhance client satisfaction? What specific technologies are useful for this purpose?
- What cultural differences may be contributing to the conflicts?
- What strategies could be used to develop an appreciation and acceptance of these differences?
- How will you train employees to communicate more effectively with customers?





Core ITAC	Competency Connections	
Strand 1: Solving Problems and Thinking Skillfully	1.2, 1.3, 1.7	
Strand 2: Communicating Effectively	2.1, 2.2, 2.3, 2.4, 2.5, 2.11	
Strand 3: Applying Technology	3.1	
Strand 4: Working Responsibly	4.1, 4.2, 4.3, 4.4, 4.5, 4.6	
Strand 5: Planning and Managing a Career	None	
Strand 6: Managing Resources	6.1, 6.4, 6.8, 6.9	

Academic Connections

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A	Language Arts	• Oral Communication/Structure: Refine speaking techniques for formal, semiformal, and informal settings
~~~		<ul> <li>Oral Communication/Structure: Select topics suitable to the audience and purpose</li> </ul>
		<ul> <li>Oral Communication/Structure: Develop a repertoire of organizational strategies for presenting information orally</li> </ul>
		<ul> <li>Oral Communication/Meaning Construction: Assess needs of audience, adjusting language and presentation according to their understanding</li> </ul>
		<ul> <li>Oral Communication/Meaning Construction: Participate in a variety of oral presentations</li> </ul>
		<ul> <li>Oral Communication/Application: Use oral communication for a variety of purposes and audiences</li> </ul>
		<ul> <li>Oral Communication/Multidisciplinary: Investigate language and cultural differences through oral language activities</li> </ul>
		<ul> <li>Writing/Structure: Use information from a variety of sources to develop an integrated piece of writing</li> </ul>
		<ul> <li>Writing/Structure: Evaluate and revise writing to focus on such things as audience, tone, and purpose</li> </ul>
		<ul> <li>Writing/Meaning Construction: Use word processing, graphics, and publishing as aids for constructing meaning in writing</li> </ul>
		<ul> <li>Writing/Application: Vary styles and formats for the intended purpose and audience</li> </ul>
		• Listening/Visual Literacy/Multidisciplinary: Investigate language and cultural differences through listening and viewing activities
	Foreign	• Cultural Knowledge: Develop sensitivity to cultural differences
<b>E1</b> ²²	Language	• Insights into the Nature of Language and Culture: Develop the ability to paraphrase and circumlocute to facilitate communication in the target language
		<ul> <li>Insights into the Nature of Language and Culture: Function in a wide range of social and professional contexts using appropriate language and gestures</li> </ul>

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## 2.1 App wit

## Apply oral communication skills in interacting individually with clients, colleagues, and members of the general public

2.1.1	S:	Apply active listening skills
2.1.2		Use questioning techniques to gather needed information
2.1.3		Translate technical vocabulary for public understanding
2.1.4	atoi	Rationally communicate a point of view
2.1.5	ndicators:	Reinforce intended message using nonverbal cues
2.1.6	Key II	Interpret nonverbal cues of other speakers
2.1.7	$ $ $\ge$	Provide feedback that is sensitive to cultural background or special needs
2.1.8		Apply mediation and negotiation skills
2.1.9		Apply conflict resolution, anger management, and crisis intervention skills

## Apply oral communication skills in interacting with clients, colleagues, and the general public in group settings

2.2.1		Apply basic communication skills
2.2.2		Use questioning techniques to gather needed information
2.2. <b>3</b>	ators:	Differentiate between communicating with an individual and with groups
2.2.4	ndica	Identify purposes of communicating in group settings
2.2.5	Key Ind	Assume leadership role for facilitating communication in group settings (e.g., mediation, negotiation)
2.2.6		Ensure that all parties have opportunity to have input and to be heard
2.2.7		Participate in group processes

2.3

2.2

## Apply written communication skills in interacting with clients, colleagues, and the general public, both individually and in group settings

2.3.1	Inte	rpret written communications
2. <b>3</b> .2	ː 안 Dem	nonstrate ability to communicate a point of view to a variety of audiences
2.3.3	Dev	elop documentation (e.g., incident reports, case notes, referrals)
2.3.4	Dev Prov	vide feedback that is sensitive to cultural background or special needs
2.3.5	App skill	ly mediation, negotiation, conflict resolution, anger management, and crisis intervention s
2.3.6		ow industry and government standards for handling documentation (e.g., maintenance and osal of records and data, court documentation requirements)



2.4

2.4.1 2.4.2 2.4.3

## Apply communication skills in interacting with clients, colleagues, and members of the general public with special needs

Access technology to aid in communications

Access human and other resources to aid in communications

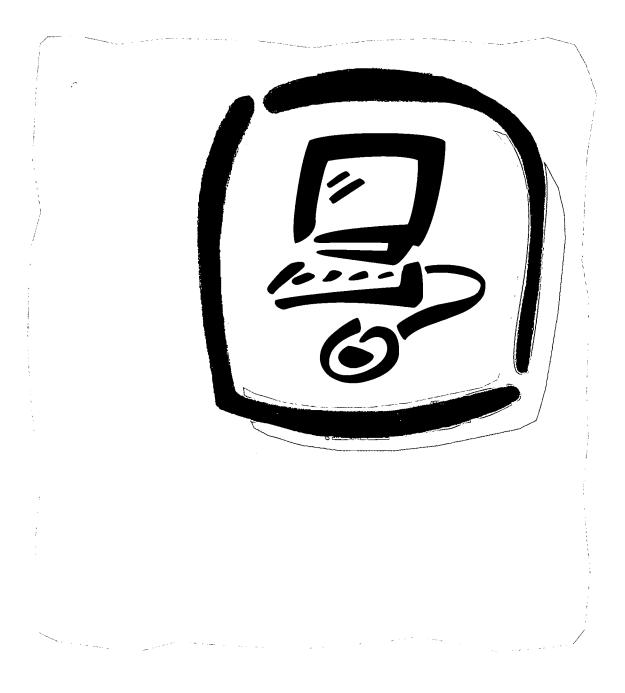
Key Indicators: Evaluate the resources and technology available for communicating with persons with special communication needs





# Applying Technology - Strand Human Resources/Services Career Cluster ITAC

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## Expectation

Technology influences every work environment. To be effective in today's workplace, individuals must be able to use the tools of technology and software applications to improve productivity and efficiency. Employers seek individuals who have developed technological skills and who stay abreast of the continuously changing technological environment.

## Competencies

- 3.1 Manage data using technology
- 3.3 Maintain technological currency
- 3.2 Communicate with others using technology

## Sample Scenario

You are a technology consultant who specializes in law enforcement applications. A special commission of a rural county board has contracted with you to identify potential technology to bring their law enforcement system up to date. The commission expects you to analyze the technology based on cost, ease of use, amount of training needed, security of information, and ability to keep the technology current. You need to present and demonstrate the technologies that you would recommend to the commission (county commissioner, prosecutor, sheriff, forensic personnel, etc.). In your presentation, show how technology could have been useful in solving previous crimes in the community.

**Guiding Questions** 

- How will you assess the technology needs of the law enforcement system?
- What criteria will you use to select the technology?
- What data are usually collected at a crime scene?
- How are the collected data measured and analyzed?
- What equipment and software application will be most useful for the data analysis needs?





Core ITAC	<b>Competency Connections</b>	
Strand 1: Solving Problems and Thinking Skillfully	1.1, 1.2, 1.4, 1.6, 1.7	
Strand 2: Communicating Effectively	2.1, 2.3, 2.11	
Strand 3: Applying Technology	3.1, 3.2, 3.3, 3.4, 3.5, 3.6	
Strand 4: Working Responsibly	4.1, 4.3, 4.4, 4.5	
Strand 5: Planning and Managing a Career	None	
Strand 6: Managing Resources	6.9	

#### **Academic Connections** Math • Algebra: Describe measures of central tendency, mean, median, mode, and variance, algebraically and graphically • Algebra: Explore recursive functions and procedures using spreadsheets and other computer utilities and use notations appropriate to these problem situations • Algebra: Analyze and describe the errors and sources of errors that can be made when using computers and calculators to solve problems • Data Analysis and Probability: Use curve fitting to predict from data; use experimental or theoretical probability, as appropriate, to represent and solve problems involving uncertainty • Data Analysis and Probability: Read, interpret, and use tables, charts, and graphs to identify patterns, note trends, draw conclusions, and make predictions Language • Writing/Structure: Use style manuals or software to prepare Arts documentation and reference lists • Writing/Meaning Construction: Use word processing, graphics, and publishing as aids for constructing meaning in writing • Listening/Visual Literacy/Application: Use technology and other media as a means of expressing ideas Scientific Inquiry: Create and use databases (electronic and other) Science to collect, organize, and verify data and observations • Applications for Science Learning: Use technology to collect, analyze, and communicate information (e.g., electronic networks, desktop publishing, remote sensing, graphing calculators, satellite telemetry, and others) Applications for Science Learning: Create products, make inferences, and draw conclusions using databases, spreadsheets, and other technologies



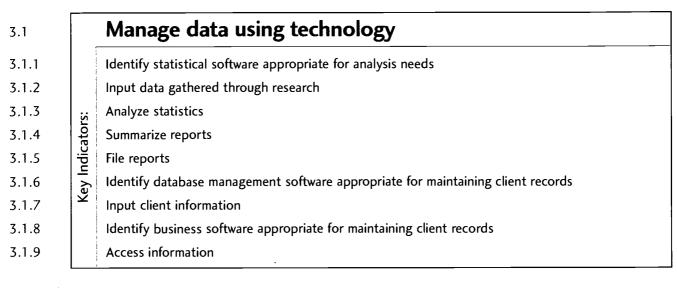


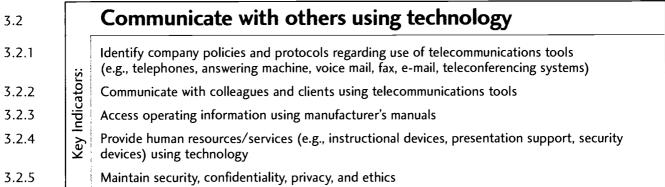


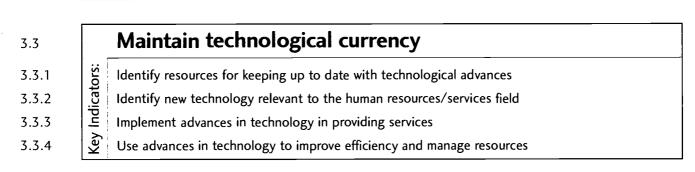
### Strand 3 – Applying Technology – Human Resources/Services Career Cluster ITAC

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### Competencies & Key Indicators









# Working Responsibly - Strand Human Resources/Services Career Cluster ITAC

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#### Expectation

Working responsibly encompasses skills in choosing ethical courses of action and applying legal, as well as regulatory, standards of conduct. Individuals must daily demonstrate a strong work ethic, including — but not limited to — honesty, initiative, and dependability. Individuals must be able to discern between right and wrong in difficult or subtle situations. Then, they must act with rightness, fairness, and equity. Individuals must be free from petty, mean, or dubious conduct if an organization is to thrive. Without high standards of ethical conduct on both sides, individuals and organizations are subject to low morale and a host of management, legal, economic, and political problems.

#### Competencies

4.1 Choose ethical courses of action in providing services

Comply with legal and regulatory standards in providing services

#### Sample Scenario

You are a professional in a social services agency. At a work party, a coworker starts to make jokes about one case in a way that reveals sensitive information. Describe your course of action immediately and in the long term. Document your actions and explain how they reflect high ethical standards important to your profession. Be prepared to share your documentation with your supervisor.

- 4.2

**Guiding Questions** 

- What is the role of government—federal, state, and local—in setting standards for confidentiality?
- What are the ethical and legal standards of confidentiality?
- What are potential legal ramifications of staffs' behavior?
- What recommendations would you make to increase staff sensitivity to ethics and laws?
- How would you document your actions?





Core ITAC	<b>Competency Connections</b>	
Strand 1: Solving Problems and Thinking Skillfully	1.1, 1.2, 1.3	
Strand 2: Communicating Effectively	2.1	
Strand 3: Applying Technology	None	
Strand 4: Working Responsibly	4.1, 4.3, 4.4, 4.5	
Strand 5: Planning and Managing a Career	None	
Strand 6: Managing Resources	6.1, 6.2, 6.4, 6.5, 6.8, 6.9	

## Academic Connections

Social Studies		• <b>Democratic Process:</b> Analyze and evaluate situations in which individual rights conflict with each other or with other important interests
		• <b>Democratic Process:</b> Analyze governmental actions in the United States federal system on the basis of the fundamental principles of American democracy, and evaluate the extent to which the actions reflect those principles and help to serve the public good
		• <b>Democratic Process:</b> Justify proposed solutions to current issues by explaining how they adhere to democratic principles
		• <b>Citizenship Rights and Responsibilities:</b> Participate with others in evaluating public policy and work to achieve consensus on how the policy issues should be addressed
	.anguage Arts	• Writing/Multidisciplinary: Use the writing process to demonstrate an understanding of human rights and freedom





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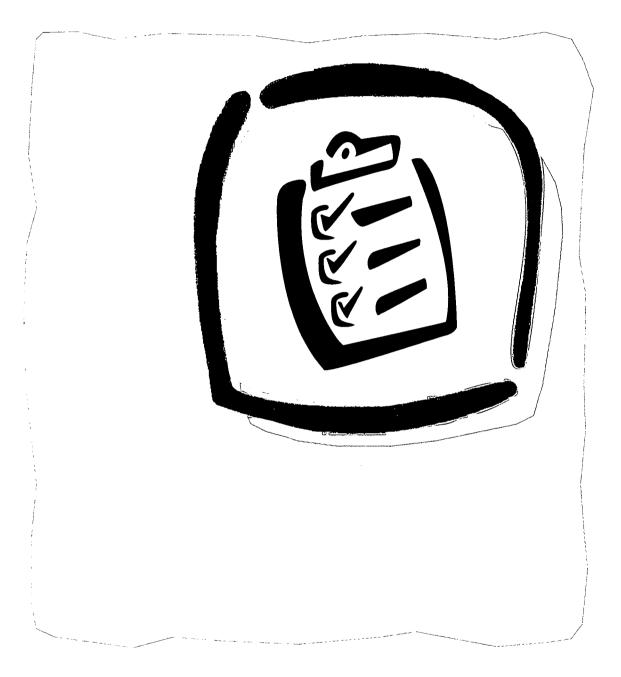
#### Competencies & Key Indicators

4.1		Choose ethical courses of action in providing services
4.1.1		Identify established parameters, regulations, and policies related to occupational ethics (e.g., by the institution, regulatory agency, professional organization, state licensing board, associations)
4.1.2		Identify established company/agency procedures for dealing with ethical issues
4.1.3	ors:	Analyze relationship between ethics and regulations, policies, and standards
4.1.4	licat	Differentiate between professional ethics and professional judgment
1.1.5	Key Indicators:	Identify possible consequences of breeches in confidentiality
.1.6	Key	Identify possible ramifications of unethical practices (e.g., loss of clients, career credentials, or funding)
.1.7		Ensure that all decision making, problem solving, and service provision are carried out in accordance with professional ethics and judgment
1.2		Comply with legal and regulatory standards in providing services
.2.1		Identify established legal and regulatory standards governing service provision (e.g., by the institution, regulatory agency, professional organization, state licensing board, associations)
.2.2		Identify established company/agency policies for dealing with legal issues
.2.3	Lisi	Differentiate between laws, standards, procedures, and policies
2.4	Indicators:	Analyze relationship between legal standards, regulations, and policies
.2.5	ndi	Identify possible impacts of illegal behavior
.2.6	Key	Identify possible consequences of illegal behavior

services Identify potential consequences of diverse approaches to legal interpretation (e.g., "letter of the law" vs. "spirit of the law") 4.2.8



# Planning and Managing a Career - Strand Human Resources/Services Career Cluster ITAC





Strand 5 – Planning and Managing a Career – Human Resources/Services Career Cluster ITAC

#### Expectation

Since work is a significant part of life, individuals need to be actively engaged in seeking a career that matches their interests, abilities, aptitudes, and skills. Career planning enhances the possibility that one's career path will lead to success and satisfaction in work. Employers seek individuals who know what they want from work and can effectively present their qualifications and skills through the job search process, including job applications and interviews. Throughout one's career, it is also important to seek continuous professional development opportunities.

#### Competencies

- 5.1 Explore careers in human resources/services
- 5.2 Seek employment in the field of human resources/services
- 5.3 Plan for professional development
- 5.4 Manage professional career

#### Sample Scenario

You have been working as a summer intern for a child protection services agency and are interested in advancing your career in human resources/services. Your employer will provide tuition assistance if you establish a plan for your professional development. Explore qualifications for various positions and develop a plan to obtain your career goals. Include a career ladder, education and training opportunities, and a plan for seeking future positions. Present your plan to a panel of employer representatives.

**Guiding Questions** 

- How will you find out about the variety of careers available in human resources/ services?
- How will you determine your match (interests, attitudes, and abilities) to a career choice?
- After you identify interest in a specific career, how will you find out about educational requirements and training opportunities?
- How will professional organizations impact your career?





Core ITAC	<b>Competency Connections</b>	
Strand 1: Solving Problems and Thinking Skillfully	1.1, 1.2, 1.3	
Strand 2: Communicating Effectively	2.2, 2.3, 2.5, 2.11	
Strand 3: Applying Technology	3.1, 3.3	
Strand 4: Working Responsibly	4.6	
Strand 5: Planning and Managing a Career	5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7	
Strand 6: Managing Resources	6.2	

#### Academic Connections

Language Arts	<ul> <li>Oral Communication/Application: Apply interviewing techniques to purposeful interviews</li> </ul>
	<ul> <li>Oral Communication/Application: Use oral communication for a variety of purposes and audiences</li> </ul>
	<ul> <li>Writing/Meaning Construction: Demonstrate an understanding of the recursive nature of the writing process by applying it appropriately to various topics, situations, and audiences</li> </ul>
	<ul> <li>Writing/Meaning Construction: Use word processing, graphics, and publishing as aids for constructing meaning in writing</li> </ul>
	• Writing/Application: Apply revising and editing strategies needed for the writing task
Science	• Applications for Science Learning: Refine personal career interests
	<ul> <li>Conditions for Learning Science: Construct a portfolio of products, documentation, and self-evaluations of own abilities, skills, and experiences</li> </ul>





#### Competencies & Key Indicators

5.1		Explore careers in human resources/services
5.1.1		Identify the range of careers in human resources/services
5.1.2	LS:	Explore specific human resources/services interests (e.g., job shadowing; worksite experience; review of print, audiovisual, and electronic sources; interviews; community services)
5.1.3	Indicators:	Identify educational and certification requirements for different human resources/services careers
5.1.4		Identify available programs providing needed education/training
5.1.5	Key	Research projected growth and availability of various careers in human resources/services
5.1.6		Identify barriers for entry into careers in human resources/services (e.g., drug use, felony crimes, sex offenses, convictions of abuse and neglect)

5.2		Seek employment in the field of human resources/services
5.2.1		Identify documentation and certification needed for obtaining and maintaining a position in human resources/services
5.2.2	ors:	Prepare credentials and documentation needed for employment in a specific position in the field of human resources/services
5.2.3	Indicators:	Identify employment opportunities
5.2.4	Indi	Dress appropriately for job interview
5.2.5	Key	Present credentials, philosophy, and goals in job interview for a position in human resources/services
5.2.6		Analyze personnel policies and procedures
5.2.7		Identify the process for resigning from a position in human resources/services



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	Plan for professional development
	Identify the role of professional organizations in the professional development process
LS:	Identify the benefits of belonging to professional, civic, and community organizations (e.g., membership, networking)
ato	Identify the benefits of participating in community service
y Indicators:	Identify the requirements and/or benefits of continuing education for the field of human resources/services
Key	Determine professional development needs
	Develop a plan for meeting identified professional development needs (e.g., through workshops continuing education, professional reading, professional association participation)

5.4
5.4.1
5.4.2
5.4.3
5.4.4
5.4.5

#### Manage professional career

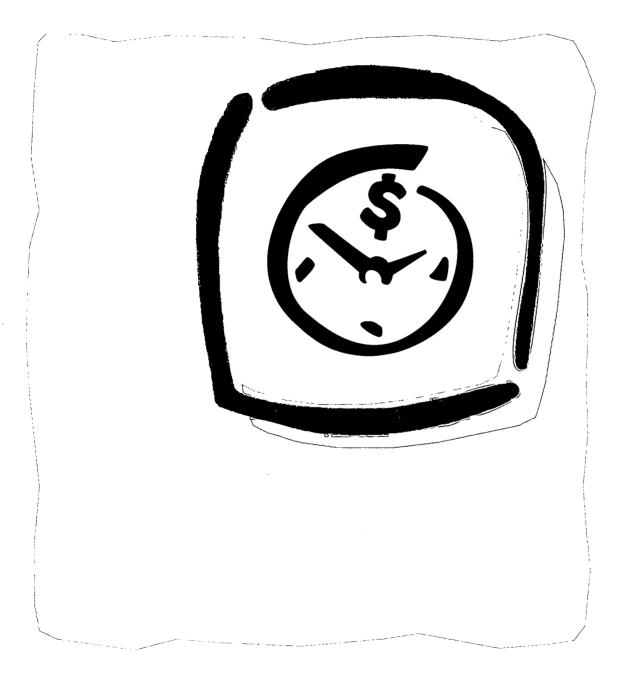
Set personal goals consistent with interests, abilities, talents, skills, and life situations Key Indicators: Develop skills and characteristics wanted by employers providing human resources/services Identify possible advancement patterns in careers in the field of human resources/services

- Monitor progress toward personal goals
- Plan for career growth





# Managing Resources - Strand Human Resources/Services Career Cluster ITAC







#### Expectation

In high-performance human resources/services workplaces, all individuals must effectively manage a variety of resources — personal, organizational, and community. Individuals' ability to apply safety and health standards, access community resources, and manage stress not only enhances personal well-being, but fosters the success of the organization or business as well.

#### Competencies

- 6.1 Comply with safety standards in human resource/service settings
- 6.2 Comply with health standards in human resource/service settings
- 6.3 Access community resources in providing services
- 6.4 Manage stress in the workplace and other environments

#### Sample Scenario

You are a new child and family services benefits coordinator in a fast-paced, growing company. Employees lead stressful lives, in large part due to inadequate family support services. As a result of a recent employee needs assessment, the company places family support as a top priority. Management has decided to expand the company's child care facility and program to include elder care services. However, employees have complained about the current facility's safety, health conditions, and programming. In addition, the child care program recently failed to earn accreditation. The company has asked you to address the current problems and develop the new elder care services program with the assistance of an advisory committee. You need to present solutions in an oral and written report to the CEO and Board of Directors as soon as possible.

#### **Guiding Questions**

- What developmental needs of employees and family members should be considered in creating new services?
- What does accreditation mean? Why is accreditation valued?
- What standards and regulations must be adhered to as the programs are developed?
- How will you ensure consistent input from important stakeholders employees, community members, and management?
- How will you keep the CEO and Board of Directors informed of your work?





Core ITAC	<b>Competency Connections</b> 1.1, 1.2, 1.3	
Strand 1: Solving Problems and Thinking Skillfully		
Strand 2: Communicating Effectively	2.1, 2.2, 2.3, 2.5, 2.11	
Strand 3: Applying Technology	3.1, 3.3	
Strand 4: Working Responsibly	4.3, 4.4, 4.6	
Strand 5: Planning and Managing a Career	None	
Strand 6: Managing Resources	6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8	

Social Studies	• <b>Democratic Processes:</b> Explain the forms of cooperative sharing and intergovernmental regulation in the federal system, the politics of federal-state-local relations, and the disputes that arise over the extent of state powers and national government powers
	• <b>Democratic Process:</b> Analyze governmental actions in the United States federal system on the basis of the fundamental principles of American democracy, and evaluate the extent to which the actions reflect those principles and help to serve the public good
Language Arts	• Oral Communication/Meaning Construction: Assess needs of audience, adjusting language and presentation according to their understanding
	<ul> <li>Oral Communication/Application: Use oral communication for a variety of purposes and audiences</li> </ul>
	• <b>Reading/Meaning Construction:</b> Confirm and extend meaning in reading by researching new concepts and facts
Science	• Scientific Inquiry: Observe and document events and characteristics of complex systems
	<ul> <li>Scientific Inquiry: Document potentially hazardous conditions and associated risks in selected homes and public areas</li> </ul>
	• Scientific Inquiry: Construct and test models of physical, biological, social, and geological systems
	• Conditions for Learning Science: Develop possible courses of action in response to scientific issues of local and global concern
	• Applications for Science Learning: Use scientific evidence to consider options and formulate positions about the health and safety of others and self





Strand 6 – Managing Resources – Human Resources/Services Career Cluster ITAC

**Competencies & Key Indicators** 

# 6.1 6.1.1 6.1.2 6.1.2 6.1.3 6.1.4 Comply with safety standards in human resource/service settings Recognize the need for safety standards and procedures Identify established safety standards (e.g., by the institution, regulatory agency, professional organization, state licensing board) Follow established safety procedures in all work activities Maintain awareness of personal safety when working with clients in multiple settings (e.g., community, private homes, human resource/service office)

6	.2	

## Comply with health standards in human resource/service settings

	1 7	
6.2.1	i.	Recognize the need for health standards and procedures
6.2.2	dicator	ldentify established health standards (e.g., by the institution, regulatory agency, professional organization, state licensing board)
6.2.3	으	Follow established health procedures in all work activities
6.2.4	Key	Maintain awareness of personal health when working with clients in multiple settings (e.g., immunizations, TB testing, hand-washing)

		Access community resources in providing services
1		Identify available community resources (e.g., individuals, groups, agencies, and organizations) relevant to the occupation
2	Indicators:	Differentiate between formal supports (e.g., agencies, organizations) and informal supports (e.g., families, neighbors, faith communities) available in the community
3	ndio	Determine specific types of services provided by each agency and organization
4	Key I	Establish relationships with community resources
5		Network with community resources
6		Assist clients in identifying and gaining access to community resources





6.4		Manage stress in the workplace and other environments
6.4.1		Demonstrate knowledge of the signs and effects of stress on personal health, behavior, and work
6.4.2	Indicators:	Determine potential sources of stress related to careers in human resources/services and in particular workplaces
6.4.3		Determine potential long-term consequences of client distress on service provider (e.g., conflicts with personal values and beliefs, burnout)
6.4.4	dica	Identify the effects of workplace stress on personal and family life
6.4.5		Identify techniques for managing stress
6.4.6	Key	Create a plan for managing personal, family, and workplace demands
6.4.7		Implement stress management plan
6.4.8		Evaluate effectiveness of plan in managing stress
6.4.9		Modify plan as needed



## Human Resources/Services Career Cluster ITAC Acknowledgments

The Vocational Instructional Materials Laboratory extends thanks and appreciation to the many representatives of business, industry, labor, and community organizations who contributed their time and expertise to the identification and verification of competencies.

The following panel participants verified the technical and academic competencies in the Human Resources/Services Career Cluster ITAC:

Melody Leidheiser, Contemporary Lifestyles, Columbus, Ohio John R. Martin, Ohio Peace Officer Training Academy, London, Ohio Linda Miller, Head Start, Newark, Ohio Ken Stubrick, M.A. Counseling, Franklin County Community Corrections, Columbus, Ohio Van S. White, Human Resources Consultant, Cincinnati, Ohio

The following educator review panel was responsible for reviewing the integrated technical and academic competencies in the Human Resources/Services Career Cluster ITAC:

Lt. Richard Bradley, Ph.D., Worthington Schools, Columbus, Ohio Thomas Dunlap, EHOVE Career Center, Milan, Ohio Jody Frantz, Cincinnati Family Education, Cincinnati, Ohio Evelyn F. Gandre, Kilbourne Middle School, Worthington, Ohio Mary Ann Hall, Vantage JVS, Van Wert, Ohio Kenneth Henn, Pickaway-Ross, Chillicothe, Ohio Lana Hollinger, Groveport Madison Local School District, Groveport, Ohio Delores Rome Hudson, Hamilton High School, Hamilton, Ohio Pat Melfi, Delaware Area Career Center, Delaware, Ohio Patricia R. Newyear, Willoughby, Ohio Harvey Poff, D. Russel Lee Career Center, Hamilton, Ohio







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