

COURSE Exploring Technology Education
WVEIS CODE 2406-2409 (Inclusive)

SKILL SETS

- Career Preparation Skills
- Safety
- Leadership Development
- Customer Service
- Science
- Math
- The Nature of Technology
- Technology and Society
- Design
- Abilities for a Technological World
- The Designed World

Skill sets for Career Preparation Skills, Safety, Leadership Development and Customer and Personal Service should be integrated throughout the Program of Study as remaining skill sets are delivered.

Exploring Technology Education

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Skill Set	Career Preparation Skills	
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>	
240 ____ .1	• career paths.	
	• goal development and achievement.	
	• attitudes and work habits that support career retention and advancement.	
	• communication in varied contexts.	
<i>Performance Objectives</i>	<i>Students will</i>	<i>Skill Set Met</i>
240 ____ .2	• relate skills and abilities to possible career pathways.	
240 ____ .3	• explain methods of goal development.	
240 ____ .4	• discuss methods of time management and task coordination.	
240 ____ .5	• practice professionalism in punctuality, appropriate dress, task completion, etc.	
240 ____ .6	• investigate methods of supervision such as giving and receiving feedback and instruction.	
240 ____ .7	• develop and present a statement of their personal work ethic beliefs.	
240 ____ .8	• prepare an application, cover letter, resume and thank you letter.	
240 ____ .9	• create a personal portfolio for use when applying for employment.	
240 ____ .10	• practice simulated job interviews.	
Skill Set	Safety	
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>	

240_____ .11	<ul style="list-style-type: none"> • safety procedures. • accident reporting agencies. • Personal Protective Equipment (PPE). 	
<i>Performance Objectives</i>	<i>Students will</i>	<i>Skill Set Met</i>
240_____ .12	• recognize the main causes of accidents.	
240_____ .13	• research agencies that are responsible for emergencies in the workplace.	
240_____ .14	• develop a plan which outlines the procedures for handling an accident.	
240_____ .15	• demonstrate operating instructions before using any equipment.	
240_____ .16	• establish procedures for safe evacuation of the worksite in the event of an emergency.	
240_____ .17	• follow safety and security procedures.	
240_____ .18	• wear PPE as required for specified task.	
Skill Set	Leadership Development	
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>	
240_____ .19	<ul style="list-style-type: none"> • public speaking. • parliamentary law. • leadership concepts. • characteristics of effective teams and organizations. 	
<i>Performance Objectives</i>	<i>Students will</i>	<i>Skill Set Met</i>
240_____ .20	• develop and deliver speeches.	
240_____ .21	• participate in meetings using parliamentary procedure.	
240_____ .22	• attend leadership conferences and training (local, state and/or national).	
240_____ .23	• volunteer in community service opportunities.	
240_____ .24	• participate in career development events.	
Skill Set	Customer and Personal Service	
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>	
240_____ .25	<ul style="list-style-type: none"> • customer needs assessment. • quality standards for services. • evaluation of customer satisfaction. 	
<i>Performance Objectives</i>	<i>Students will</i>	<i>Skill Set Met</i>
240_____ .26	confer with customers by telephone or in person to provide information <ul style="list-style-type: none"> • about products or services, take or enter orders, cancel accounts, or obtain details of complaints. 	
240_____ .27	<ul style="list-style-type: none"> • keep records of customer interactions or transactions, recording details of inquiries, complaints, or comments, as well as actions taken. 	
240_____ .28	<ul style="list-style-type: none"> • check to ensure that appropriate changes were made to resolve customers' problems. 	

240_____ .29	<ul style="list-style-type: none"> determine charges for services requested, collect deposits or payments, or arrange for billing. 	
240_____ .30	<ul style="list-style-type: none"> refer unresolved customer grievances to designated departments for further investigation. 	

Exploring Technology Education (2406-2409 Inclusive)

WVEIS 2406-2409

Standards for Technological Literacy		
The Nature of Technology		
<i>Knowledge Objectives</i> Students will demonstrate knowledge of		
240_____ .31	<ul style="list-style-type: none"> the characteristics and scope of technology. 	
<i>Performance Objectives</i> Students will		<i>Skill Set Met</i>
240_____ .32	<ul style="list-style-type: none"> the usefulness of technology. 	
240_____ .33	<ul style="list-style-type: none"> development of technology. 	
240_____ .34	<ul style="list-style-type: none"> human creativity and motivation. 	
240_____ .35	<ul style="list-style-type: none"> product demand. 	
<i>Knowledge Objectives</i> Students will demonstrate knowledge of		
240_____ .36	<ul style="list-style-type: none"> the core concepts of technology. 	
<i>Performance Objectives</i> Students will		<i>Skill Set Met</i>
240_____ .37	<ul style="list-style-type: none"> systems. 	
240_____ .38	<ul style="list-style-type: none"> resources. 	
240_____ .39	<ul style="list-style-type: none"> requirements. 	
240_____ .40	<ul style="list-style-type: none"> trade-offs. 	
240_____ .41	<ul style="list-style-type: none"> processes. 	
240_____ .42	<ul style="list-style-type: none"> controls. 	
<i>Knowledge Objectives</i> Students will demonstrate knowledge of		
240_____ .43	<ul style="list-style-type: none"> the relationships among technologies and the connections between technology and other fields. 	
<i>Performance Objectives</i> Students will		<i>Skill Set Met</i>
240_____ .44	<ul style="list-style-type: none"> interaction of systems. 	
240_____ .45	<ul style="list-style-type: none"> interrelation of technological environments. 	
240_____ .46	<ul style="list-style-type: none"> knowledge from other fields of study and technology. 	
Technology and Society		
<i>Knowledge Objectives</i> Students will demonstrate knowledge of		
240_____ .47	<ul style="list-style-type: none"> the cultural social, economic and political effects of technology. 	
<i>Performance Objectives</i> Students will		<i>Skill Set Met</i>
240_____ .48	<ul style="list-style-type: none"> attitudes toward development and use. 	

240	.49	• impacts and consequences.	
240	.50	• ethical issues.	
240	.51	• Influences on economy, politics and culture.	
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>		
240	.52	• the effects of technology on the environment.	
<i>Performance Objectives</i>	<i>Students will</i>		<i>Skill Set Met</i>
240	.53	• management of waste.	
240	.54	• technologies repair damage.	
240	.55	• environmental vs. economic concerns.	
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>		
240	.56	• the role of society in the development and use of technology.	
<i>Performance Objectives</i>	<i>Students will</i>		<i>Skill Set Met</i>
240	.57	• development driven by demands, values and interests..	
240	.58	• inventions and innovations.	
240	.59	• social and cultural priorities.	
240	.60	• acceptance and use of products and systems.	
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>		
240	.61	• the influence of technology on society.	
<i>Performance Objectives</i>	<i>Students will</i>		<i>Skill Set Met</i>
240	.62	• processes of inventions and innovations.	
240	.63	• specialization of labor.	
240	.64	• evolution of techniques, measurement and resources.	
240	.65	• technological and scientific knowledge.	
Skill Set	Design		
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>		
240	.66	• the attributes of design.	
<i>Performance Objectives</i>	<i>Students will</i>		<i>Skill Set Met</i>
240	.67	• how design leads to useful products and systems.	
240	.68	• the concept that there is no perfect design.	
240	.69	• design requirements.	
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>		
240	.70	• engineering design.	
<i>Performance Objectives</i>	<i>Students will</i>		<i>Skill Set Met</i>
240	.71	• iterative.	

240	.72	• brainstorming.	
240	.73	• modeling, testing, evaluating and modifying.	
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>		
240	.74	• the role of troubleshooting, research and development, invention and innovation and experimentation in problem solving.	
<i>Performance Objectives</i>	<i>Students will</i>		<i>Skill Set Met</i>
240	.75	• troubleshooting.	
240	.76	• invention and innovation.	
240	.77	• experimentation.	
Skill Set	Abilities for a Technological World		
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>		
240	.78	• the design process.	
<i>Performance Objectives</i>	<i>Students will</i>		<i>Skill Set Met</i>
240	.79	• apply the design process.	
240	.80	• identify criteria and constraints.	
240	.81	• model a solution to a problem.	
240	.82	• test and evaluate.	
240	.83	• make a product or system.	
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>		
240	.84	• the use and maintenance of technological products and systems.	
<i>Performance Objectives</i>	<i>Students will</i>		<i>Skill Set Met</i>
240	.85	• use information to see how things work.	
240	.86	• safely use tools to diagnose, adjust and repair.	
240	.87	• use computers and calculators.	
240	.88	• operate systems.	
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>		
240	.89	• assessing the impact of products and systems.	
<i>Performance Objectives</i>	<i>Students will</i>		<i>Skill Set Met</i>
240	.90	• design and use instruments to collect data.	
240	.91	• use collected data to find trends.	
240	.92	• identify trends.	
240	.93	• interpret and evaluate accuracy of information.	
Skill Set	The Designed World		
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>		
240	.94	• medical technologies.	

<i>Performance Objectives</i>	<i>Students will</i>	<i>Skill Set Met</i>
240 .95	• advances and innovations in medical technologies..	
240 .96	• sanitation processes.	
240 .97	• immunology.	
240 .98	• awareness about genetic engineering.	
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>	
240 .99	• agricultural and related biotechnologies.	
<i>Performance Objectives</i>	<i>Students will</i>	<i>Skill Set Met</i>
240 .100	• technological advances in agriculture.	
240 .101	• specialized equipment and practices.	
240 .102	• biotechnology and agriculture.	
240 .103	• artificial ecosystems and management.	
240 .104	• development of refrigeration, freezing, dehydration, preservation and irradiation.	
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>	
240 .105	• energy and power technologies.	
<i>Performance Objectives</i>	<i>Students will</i>	<i>Skill Set Met</i>
240 .106	• energy is the capacity to do work.	
240 .107	• energy can be used to do work using many processes.	
240 .108	• power is the rate at which energy is converted from one form to another.	
240 .109	• power systems.	
240 .110	• efficiency and conservation.	
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>	
240 .111	• information and communication technologies.	
<i>Performance Objectives</i>	<i>Students will</i>	<i>Skill Set Met</i>
240 .112	• information and communications systems.	
240 .113	• communication systems encode, transmit and receive information.	
240 .114	• factors influencing the design of a message.	
240 .115	• language of technology.	
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>	
240 .116	• transportation technologies.	
<i>Performance Objectives</i>	<i>Students will</i>	<i>Skill Set Met</i>
240 .117	• design and operation of transportation systems.	
240 .118	• subsystems of transportation system.	

240	.119	• governmental regulations.	
240	.120	• transportation processes.	
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>		
240	.121	• manufacturing technologies.	
<i>Performance Objectives</i>	<i>Students will</i>		<i>Skill Set Met</i>
240	.122	• manufacturing systems.	
240	.123	• manufacturing goods.	
240	.124	• manufacturing processes.	
240	.125	• chemical technologies.	
240	.126	• materials use.	
240	.127	• marketing products.	
<i>Knowledge Objectives</i>	<i>Students will demonstrate knowledge of</i>		
240	.128	• construction technologies.	
<i>Performance Objectives</i>	<i>Students will</i>		<i>Skill Set Met</i>
240	.129	• construction designs.	
240	.130	• foundations.	
240	.131	• purpose of structures.	
240	.132	• building systems and sub-systems.	

This course aligns with International Technology Engineering Educators Association (ITEEA) Standards for Technological Literacy. Grades 6-8.

[International Technology Engineering Educators Association \(ITEEA\) Standards for Technological Literacy](#)