Connecticut CTE

Essential Knowledge and Skills

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a Apply data and measurements to solve a problem. EKS.03.02

1 Apply data and measurements to solve a problem. EKS.02.03

2 Construct charts/tables/graphs from functions and data. EKS.02.04

3 Analyze data when interpreting operational documents. EKS.02.05

b Demonstrate science knowledge and skills required to pursue the full range of post-secondary and career education opportunities. EKS.04

1 Evaluate scientific constructs including: conclusions, conflicting data, controls, data, inferences, limitations, questions, sources of errors, and variables. EKS.04.01

2 Apply scientific methods in qualitative and quantitative analysis, data gathering, direct and indirect observation, predictions, and problem identification. EKS.04.02

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c Employ critical thinking skills independently and in teams to solve problems and make decisions (e.g., analyze, synthesize and evaluate). EKS.05

2 Analyze elements of a problem to develop creative solutions. EKS.05.02

1 Identify common tasks that require employees to use problem-solving skills. EKS.05.01

3 Describe the value of using problem-solving and critical thinking skills to improve a situation or process. EKS.05.03

4 Create ideas, proposals, and solutions to problems. EKS.05.04

5 Evaluate ideas, proposals, and solutions to problems. EKS.05.05

6 Use structured problem-solving methods when developing proposals and solutions. EKS.05.06

7 Generate new and creative ideas to solve problems by brainstorming possible solutions. EKS.05.07

8 Critically analyze information to determine value to the problem-solving task. EKS.05.08

9 Guide individuals through the process of recognizing concerns and making informed decisions. EKS.05.09

10 Identify alternatives using a variety of problem-solving and critical thinking skills. EKS.05.10

11 Evaluate alternatives using a variety of problem-solving and critical thinking skills. EKS.05.11

d Implement personal and jobsite safety rules and regulations to maintain safe and healthful working conditions and environments. EKS.06

1 Assess workplace conditions with regard to safety and health. EKS.06.01

2 Align safety issues with appropriate safety standards to ensure a safe workplace/jobsite. EKS.06.02

3 Identify safety hazards common to workplaces. EKS.06.03

4 Identify safety hazards common to workplaces.Identify safety precautions to maintain a safe worksite. EKS.06.04

5 Select appropriate personal protective equipment as needed for a safe workplace/jobsite. EKS.06.05

6 Inspect personal protective equipment commonly used for selected career choice. EKS.06.06

7 Use personal protective equipment according to manufacturer rules and regulations. EKS.06.07

8 Employ a safety hierarchy and communication system within the workplace/jobsite. EKS.06.08

9 Implement safety precautions to maintain a safe worksite. EKS.06.09

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e Employ leadership skills to accomplish organizational goals and objectives. EKS.07

1 Exhibit traits such as empowerment, risk, communication, focusing on results, decision-making, problem solution, and investment in individuals when leading a group in solving a problem. EKS.07.01

2 Exhibit traits such as compassion, service, listening, coaching, developing others, team development, and when acting as a manager of others in the workplace. Understanding and appreciating others EKS.07.02

3 Exhibit traits such as enthusiasm, creativity, conviction, mission, courage, concept, focus, principle-centered living, and change when interacting with concept, focus, principle-centered living, and change when interacting with others in general. EKS.07.03

4 Consider issues related to self, team, community, diversity, environment, and global awareness when leading others. EKS.07.04

5 Exhibit traits such as innovation, intuition, adaptation, life-long learning and coachable to develop leadership potential over time. EKS.07.05

6 Analyze leadership in relation to trust, positive attitude, integrity, and willingness to accept key responsibilities in a work situation. EKS.07.06

7 Describe observations of outstanding leaders using effective management styles. EKS.07.07

8 Participate in civic and community leadership and teamwork opportunities to enhance skills. EKS.07.08

f Identify and demonstrate positive work behaviors and personal qualities needed to be employable. EKS.08

1 Demonstrate self-discipline, self-worth, positive attitude, and integrity in a work situation. EKS.08.01

2 Demonstrate flexibility and willingness to learn new knowledge and skills. EKS.08.02

3 Exhibit commitment to the organization. EKS.08.03

4 Identify how work varies with regard to site, from indoor confined spaces to outdoor areas, including aerial space and a variety of climatic and physical conditions. EKS.08.04

5 Apply communication strategies when adapting to a culturally diverse environment. EKS.08.05

6 Manage resources in relation to the position (i.e. budget, supplies, computer, etc.). EKS.08.06

7 Identify positive work-qualities typically desired in each career. EKS.08.07

8 Manage work roles and responsibilities to balance them with other life roles and responsibilities. EKS.08.08

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g Demonstrate skills related to seeking and applying for employment to find and obtain a desired job. EKS.09

1 Use multiple resources to locate job opportunities. EKS.09.01

2 Prepare a résumé. EKS.09.02

3 Prepare a letter of application. EKS.09.03

4 Complete an employment application. EKS.09.04

5 Interview for employment. EKS.09.05

6 List the standards and qualifications that must be met in order to enter a given industry. EKS.09.06

7 Employ critical thinking and decision-making skills to exhibit qualifications to a potential employer. EKS.09.07