



South Central College

CMAE 1514 Safety Awareness

Course Outcome Summary

Course Information

Description	This course is designed to align with the National Skill Standard assessment and certification system for Safety Awareness. The course curriculum is based on federally-endorsed national standards for production workers. This course will introduce OSHA standards relating to personal protective equipment, Hazard Communication, tool safety, confined spaces, electrical safety, emergency responses, lockout/tagout, and others. (Prerequisites: None)
Total Credits	2
Total Hours	32

Types of Instruction

Instruction Type	Credits/Hours
Lecture	2/32

Pre/Corequisites

None

Institutional Core Competencies

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

Course Competencies

1. Explain characteristics of working in a safe and productive manufacturing workplace.

Learning Objectives

Identify ways in which manufacturing affects the national and global economies.

Recognize systems of safety used by high-performance manufacturers to produce quality products at lowest possible costs.

Identify the role of production workers in helping to ensure competitive levels of cost, quality, and delivery in a safe work environment.

Identify external and internal customers.

2. Describe process for performing safety and environmental assessments.

Learning Objectives

Identify potential hazards in the work environment.
Describe processes related to reporting and monitoring potential hazards.
Review health, safety, and environmental documentation and policies.
Identify all relevant health, safety, and environmental laws and regulations in regards to inspections.
Describe aspects of schedules, procedures, documentation, and record storage related to inspections.

3. Identify procedures related to performing emergency drills and participating on emergency teams.

Learning Objectives

Discuss training and certification on relevant emergency and first aid procedures.
Define procedures for responding to fire and electrical emergencies.
Relate emergency response compliance to company and regulatory policies and procedures.
Explain documentation process in regards to drills and incidents in relation to company and regulatory procedures.

4. Identify potential unsafe conditions and corrective actions.

Learning Objectives

Identify conditions that could present a threat to health, safety, and the environment.
Explain the process of documenting threats properly.
Identify corrective actions related to threats.
Discuss consultation of appropriate parties regarding corrective action.
Relate steps to ensure corrective actions are taken promptly according to company procedures.
Explain the process of tracking and reporting ongoing safety concerns until corrective action is taken.

5. Discuss safety training for manufacturing employees.

Learning Objectives

Identify characteristics of orientation that covers all topics and procedures needed to facilitate employee safety.
Discuss needs and process in place to ensure employees can raise safety concerns, ask questions, and receive additional training.
Explain the proper use of personal protective equipment.
Identify documentation processes in regards to orientation and company requirements.
Discuss alignment of orientation with all relevant laws, policies, and regulations.

6. Explain proper safe use of equipment.

Learning Objectives

Identify guidelines for ergonomic safety and the importance of new operators receiving a complete orientation to the equipment.
Explain clear and effective communication in regards to equipment safety, including material handling.
Describe the use of evaluations and feedback to improve training materials and methods.
Identify effective, quality techniques for safe use of equipment.

7. Describe processes and procedures that support safety in a work environment.

Learning Objectives

Identify the importance of consultation with health and safety representatives.
Describe how to create a safer, more effective work environment.
Discuss safety, quality, and productivity issues and associated documentation.

8. Summarize safety and health requirements for maintenance, installation, and repair.

Learning Objectives

Explain the importance of communication regarding safety.
Identify job safety analyses that need to be reviewed regularly according to company policy.
Define hazardous materials procedures and policies.
Identify associated documentation and information, such as Material Safety Data Sheets (MSDS) and right-to-know policies.
Explain use of safety guards and how to avoid by-passes.
Describe safety procedures, including those related to lock-out/tag-out, confined space, and ergonomics.
Explain good housekeeping procedures.

9. Identify aspects of safe equipment and operator performance.

Learning Objectives

Explain the process of regular monitoring.

Describe the reporting of unsafe conditions or circumstances that are out of compliance.

Identify necessary equipment and tool checks to ensure compliance with safety specifications.

Explain the importance of ensuring accident and injury data being forwarded to appropriate personnel for inclusion in OSHA recordables.

10. Recognize effective, safety-enhancing workplace practices.

Learning Objectives

Describe the role of clear communication in workplace safety practices.

Identify effective teamwork as a necessary component of workplace safety.

Explain how proper production job assignments and efficient training programs are important to safety-enhancing workplace practices.

SCC Accessibility Statement

South Central College strives to make all learning experiences as accessible as possible. If you have a disability and need accommodations for access to this class, contact the Academic Support Center to request and discuss accommodations. North Mankato: Room B-132, (507) 389-7222; Faribault: Room A-116, (507) 332-7222.

Additional information and forms can be found at: www.southcentral.edu/disability

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