

TECH PREP/MTAG CURRICULUM

Safety in Manufacturing

Lesson Plan

Time: 6 hours
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MODULE DESCRIPTION

This module provides an introduction to the critical nature of safety in manufacturing and to the role of the individual in maintaining a safe work environment.

MODULE OBJECTIVE

After completing this module, students should be able to evaluate the degree of hazard present in the workplace and recommend appropriate corrective action.

MTAG COMPETENCIES INTRODUCED

- C1.1 Assume responsibility for the personal safety of self and others
- C1.6 Complete forms and paperwork as required
- C7.5 Evaluate and determine hazards
- C8.1 Define ergonomics
- G3.1 Define a safe work environment

MANUFACTURING SKILL STANDARDS (MSSC) INTRODUCED

P2 Safety: B. Knowledge of safety procedures to prevent accidents

P7 Safety Procedures: D. Knowledge of Personal Protective Equipment that should be worn.

PERFORMANCE CRITERIA

- Student will be able to locate safety equipment, wear appropriate protective equipment, and report unsafe situations promptly.
- Student will be able to accurately fill out a safety checklist and accident report.
- Given a simulated scenario, the student will be able to determine the degree of hazard present and recommend appropriate corrective action.
- Student will be able to define ergonomics as the science of studying human processes and activities and designing or adapting tools, equipment and workplace to fit the worker.
- Student will be able to determine whether or not a site is safe and appropriately maintained

SEQUENCING

Module Introduction
Safety Awareness Exercise
Identifying Hazards
Personal Protective Equipment (PPE)
Safety Guards on Equipment
Electrical Hazards
Fire
Maintaining a Safe Working Environment
Skill Check 1: Identifying Hazardous Conditions
Ergonomics
Responding to Accidents
The Accident Report
Responding to Simulated Accident Scenarios
Skill Check 2: Written Test
Module Evaluation

EQUIPMENT AND SUPPLIES NEEDED

VCR and monitor

This module recommends the use of videos produced by the Washington State Department of Labor and Industry to simulate accident scenarios. Order forms are provided in Handouts 1&2. Recommended videos:

Anatomy of an Accident, V0910

Metal Working Safety, V0670

Descriptions of these and other safety videos can be previewed at:

<http://www.lni.wa.gov/wisha/videocat/videocatalog/default.asp>

Assortment of Personal Protective Equipment available from school metal, wood, or automotive shop (samples should include head, eye, hearing, and breathing protective equipment)

Instructor Note: Information for this module is adapted from the Washington State Safety Guide for Career and Technical Education developed by the Office of the Superintendent of Public Instruction.

INDEX OF INSTRUCTIONAL MATERIALS PROVIDED

Lesson Plan	p.2
Class Curriculum	p.4
Student Assessment Rubric	p.11
Module Evaluations	p.12
Class Handouts	p.15

STUDENT PREREQUISITES

None