

Course No: MEC103

Credits: 1

Date: April 2017

Course Title: Industrial Safety
Institution: Rogue Community College
Type of Course: Occupational Preparatory
Length of Course: A minimum of 20 lecture/lab hours for one term.
Prerequisites: RD90 and WR90 or designated placement test scores
Department Assignment: Manufacturing Engineering Technology

Course Description: Covers the importance of workplace safety, OSHA regulations, and practicing safety in the workplace. Learners will study topics like the importance of safety policies, common causes of workplace injuries and accidents, and OSHA regulation for general workplace safety, personal protective equipment, tools, and machines.

Institutional Learning Outcomes (ILO):

Application of Knowledge (AK)	Students will synthesize and use knowledge in familiar and unfamiliar situations to effectively solve problems and complete tasks.
Approach to Learning (AL)	Students will engage in and take responsibility for intentional learning, seek new knowledge and skills to guide their continuous and independent development, and adapt to new situations.
Communication (COM)	Students will engage in quality communication using active listening and reading skills and expressing ideas appropriately in oral, written, and visual work.
Critical Thinking (CT)	Students will think critically and creatively about problems and issues in the classroom or school, home, work, and community settings to create positive, sustainable solutions.
Personal Growth (PG)	Students will balance life and civic responsibilities, believe in themselves, accept and commit to change, self-reflect, and be tolerant and respectful of themselves and others.

Course Outcomes, Assessments, and ILO (Institutional Learning Outcomes) Indicators:

Course Learning Outcomes:	Assessment Methods:	ILO Key Indicators:
1. Apply basic workplace concepts and practices as it applies to safety.	1. Completion of written assignments and lab projects. Assignments and projects will be assessed with scoring rubric. Instructor observation.	AL 3 - <i>Internalize and assimilates information into new situations.</i>
2. Demonstrate the proper use of personal protective equipment.	2. Completion of written assignments and lab projects. Assignments and projects will be assessed with scoring rubric. Instructor observation.	
3. Identify common causes of workplace accidents and how to mitigate them.	3. Completion of written assignments and lab projects. Assignments and projects will be assessed with scoring rubric. Instructor observation.	
4. Perform the four factors and requirements of an effective energy-control program (ECP).	4. Completion of written assignments and lab projects. Assignments and projects will be assessed with scoring rubric. Instructor observation.	

Typical Required and Recommended Text(s): *Amatrol Online Content*

Typical Required and Recommended Equipment and Materials: Scratch paper, pen or mechanical pencil

Format: Online via Blackboard

TYPICAL COURSE CONTENT

- 1) Safety Practices and Regulations
 - a) What Is Safety?
 - b) Regulating Safety
 - c) Practicing Safety in The Workplace
- 2) Accident Response
 - a) First Aid
 - b) Accident Procedures
- 3) Personal Protective Equipment
 - a) Introduction to Personal Protective Equipment
 - b) Workplace PPE Requirements
 - c) Types of PPE
- 4) Lockout/Tagout
 - a) Lockout/Tagout Procedures
- 5) Confined Spaces
 - a) Confined Space Procedures
- 6) Hazardous Communication
 - a) Hazardous Materials – Definitions, Uses and Standards
 - b) Hazard Communication Documents