

COURSE SYLLABUS

LAST REVIEW	Fall 2024
COURSE TITLE	Safety OSHA 10
COURSE NUMBER	AMFT 0100
DIVISION	Career and Technical Education
DEPARTMENT	Automation Engineer Technology
CIP CODE	15.0406
CREDIT HOURS	2
CONTACT HOURS	32
PREREQUISITES	None
COURSE PLACEMENT	Reading score of 240 on the Accuplacer tests. Information may be found at: https://www.kckcc.edu/admissions/information/mandatory-evaluation-placement.html

COURSE DESCRIPTION

Through a variety of classroom and/or lab learning and assessment activities, students in this course will: explain job/site safety and precautions for job/site hazards; determine the uses of personal protective equipment (PPE); identify the safety equipment and procedures related to safe work practices and environment; identify fire prevention and protection techniques; and explore Hazardous Communications (HazCom) including Material Safety Data Sheets (MSDS).

PROGRAM ALIGNMENT

This course is part of a program aligned through the Kansas Board of Regents and Technical Education Authority. For more information, please visit:
https://kansasregents.org/workforce_development/program-alignment

PROGRAM LEARNING OUTCOMES

1. The student will be able to assess hazards, mitigate risk, and develop procedures and protocol to create a safe working environment.
2. Student will be able to collaborate with team members in developing a plan to maximize efficiency in a production facility.
3. The student will be able to evaluate implicit tasks and identify necessary resources to install and maintain industrial equipment.
4. Student will be able to troubleshoot and repair industrial equipment in the high stress environment of modern manufacturing.

INSTITUTIONAL LEARNING OUTCOMES

This course supports student achievement of one or more of the KCKCC Institutional Learning Outcomes. Additional information is located at

<https://www.kckcc.edu/academics/assessment/institutional-learning-outcomes.html>

TEXTBOOKS

<http://kckccbookstore.com/>

METHODS OF INSTRUCTION

A variety of instructional methods may be used depending on content area. These include but are not limited to lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom.

Methodology will be selected to best meet student needs.

COURSE OUTLINE

- I. Introduction to OSHA
 - A. OSH Act, General Duty Clause, Employer and Employee Rights and Responsibilities, Whistleblower Rights, Recordkeeping basics
 - B. Inspections, Citations, and Penalties
 - C. General Safety and Health Provisions, Competent Person, Subpart C
 - D. Value of Safety and Health
 - E. OSHA Website, OSHA 800 number and available resources
- II. OSH Act Subparts
 - A. Walking and Working Surfaces - including fall protection, Subpart D - One Hour
 - B. Exit Routes, Emergency Action Plans, Fire Prevention Plans, and Fire Protection, Subparts E & L - Two Hours
 - C. Electrical, Subpart S - Two Hours
 - D. Personal Protective Equipment (PPE), Subpart I - One Hour
 - E. Materials Handling, Subpart N - Two Hours
 - F. Hazard Communication, Subpart Z - One Hour
 - G. Hazardous Material (Flammable and Combustible Liquids, Spray Finishing, Compressed Gases, Dipping and Coating Operations), Subpart H
 - H. Permit-Required Confined Spaces, Subpart J
 - I. Lockout/Tagout, Subpart J
 - J. Machine Guarding, Subpart O
 - K. Welding, Cutting, and Brazing, Subpart Q
 - L. Introduction to Industrial Hygiene, Subpart Z
 - M. Bloodborne Pathogens, Subpart Z
 - N. Ergonomics
 - O. Fall Protection

- P. Safety and Health Programs
- Q. Powered Industrial Vehicles

COURSE LEARNING OUTCOMES

Upon successful completion of this course, the student will:

- A. Explain job/site safety and precautions for job/site hazards.
- B. Determine the uses of personal protective equipment (PPE).
- C. Identify the safety equipment and procedures related to safe work practices and environment.
- D. Identify fire prevention and protection techniques; and explore Hazardous Communications (HazCom) including Material Safety Data Sheets (MSDS).

ASSESSMENT OF COURSE LEARNING OUTCOMES

Student progress is evaluated through both formative and summative assessment methods. Specific details may be found in the instructor's course information document.

COLLEGE POLICIES AND PROCEDURES

Student Handbook

<https://www.kckcc.edu/files/docs/student-resources/student-handbook-and-code-of-conduct.pdf>

College Catalog

<https://www.kckcc.edu/academics/catalog/index.html>

College Policies and Statements

<https://www.kckcc.edu/about/policies-statements/index.html>

Accessibility and Accommodations

<https://www.kckcc.edu/academics/resources/student-accessibility-support-services/index.html>.