ATIN-1050: Insulators Safety

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Cuyahoga Community College

Viewing: ATIN-1050: Insulators Safety

Board of Trustees:

March 2025

Academic Term:

Spring 2025

Subject Code

ATIN - Applied Industrial Technology - Insulators

Course Number:

1050

Title:

Insulators Safety

Catalog Description:

The theories and principles of construction safety and health applied to working as an insulator following the Occupational Safety and Health Administration (OSHA) curriculum for the 30-hour Outreach Training Program for construction industry safety and health. Upon completion of course materials and required attendance hours, students receive their OSHA Construction 30-hour Outreach completion cards.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

Departmental approval: admission to Heat and Frost Insulator's apprenticeship program.

Outcomes

Course Outcome(s):

Obtain OSHA 30 certification for the construction industry.

Essential Learning Outcome Mapping:

Not Applicable: No Essential Learning Outcomes mapped. This course does not require application-level assignments that demonstrate mastery in any of the Essential Learning Outcomes.

Objective(s):

- 1. Explain the importance of safety in the construction industry and the role personnel play in safety and health.
- 2. List ways to prevent violence and reduce stress in the workplace.
- 3. Explain workers' compensation and OSHA compliance.
- 4. List and explain OSHA's construction standard (29CFR 1926) and corresponding safety practices.
- 5. Explain the relationship between ethics and job safety.

Course Outcome(s):

Explain how to respond to workplace hazards.

Essential Learning Outcome Mapping:

Not Applicable: No Essential Learning Outcomes mapped. This course does not require application-level assignments that demonstrate mastery in any of the Essential Learning Outcomes.

Objective(s):

- 1. Create a construction project safety plan.
- 2. Describe job safety, and prevention and control of workplace hazards.
- 3. Describe accident investigation, reporting and record keeping.
- 4. Describe an emergency response plan.
- 5. Define total safety management.

Methods of Evaluation:

- 1. Summative guizzes
- 2. Assignments
- 3. Final exam.
- 4. Class participation

Course Content Outline:

- 1. Safety movement in the construction industry
 - a. Past and present historical trends
 - b. Environmental safety and ISO 14000
- 2. OSHA compliance with personal protective equipment
 - a. Fire protection
 - b. Fall protection
 - c. Electrical safety
- 3. Cost of accident
 - a. Accident causation
 - b. Contractor insurance rating
- 4. Role of construction personnel in safety & health
 - a. Back safety
 - b. OSHA subparts P through Z, and related safety practices
- 5. Ethics and safety
 - a. Ohio's construction safety ranking
 - b. Drug-free safety program
 - c. Worker's compensation
 - d. Stress in the workplace
 - e. Promoting safety
- 6. Construction safety and health: Program and policies
 - a. Job safety and hazard analysis
 - b. Accident investigation, reporting, and record keeping
 - c. Emergency response plan
 - d. Total safety management
 - e. Bloodborne pathogens

Resources

National Safety Compliance. OSHA Construction Industry Regulations. 7th ed. Springfield, MO, 2024.

Goetsch, David L. Construction Safety and Health. 2nd ed. Boston: Pearson, 2021.

J. J. Keller & Associates, Inc. OSHA Construction Safety Handbook. 7th ed. Neenah, WI, 2024.

Resources Other

OSHA approved videos: Personal Protection Equipment, Fire Protection, Fall Protection, Electrical Safety, Back Safety, and Violence in the Workplace.

- Ohio DOT Highway Safety Manual. (2024). https://www.transportation.ohio.gov/programs/highway+safety/highway-safety-manual-guidance/highway-safety-manual (https://www.transportation.ohio.gov/programs/highway+safety/highway-safety-manual-guidance/highway-safety-manual/)
- National Association of Home Builders. YouTube Channel. (2024). https://www.youtube.com/c/NAHBTV (https://www.youtube.com/c/NAHBTV/)
- National Safety Compliance. YouTube Channel. (2024). https://www.youtube.com/c/oshasafetytraining (https://www.youtube.com/c/oshasafetytraining/)
- ODOT Online Resource Library. (2024). https://www.transportation.ohio.gov/about-us/resources (https://www.transportation.ohio.gov/about-us/resources/)
- FEMA Resource Center. (2024). https://training.fema.gov/

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