

ATCW-1010: WORKER SAFETY FOR COMMUNICATION TRANSPORT

Cuyahoga Community College

Viewing: ATCW-1010 : Worker Safety for Communication Transport

Academic Term:

Spring 2019

Subject Code

ATCW - AIT-Communication Workers

Course Number:

1010

Title:

Worker Safety for Communication Transport

Catalog Description:

Covers specific safety concerns for the communication transport worker including job conditions and pole climbing hazards. Includes an introduction to the Occupational Safety and Health Act (OSHA) for 10 hour certification. Topics include employee responsibilities and rights, standards, and basic hazard training.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

Departmental approval: admission into the CWA apprenticeship program.

Outcomes

Course Outcome(s):

Discuss the safety concerns for communication transport workers with respect to job conditions, working operations and worker competence.

Objective(s):

1. Identify job conditions for communication transport workers.
2. Discuss the driving hazards related to job performance.
3. List the hazards related to pole climbing operations.
4. Identify the environmental hazards related to inclement weather installations.
5. Discuss the electrical and physical concerns associated to pole climbing.
6. Explain the importance of competency with respect to worker performance while working with a communications crew.
7. Discuss proper pole climbing procedures.

Course Outcome(s):

Discuss the purpose of OSHA, employer/employee rights, responsibilities, standards and training.

Objective(s):

1. Discuss the expectations of the employer and employee with respect to OSHA regulations.
 2. List the standards that identify requirements for general safety, health and training.
 3. Explain the training requirements for workers.
 4. Explain the purpose and function of the OSHA standards.
 5. Define terms related to OSHA regulations.
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Methods of Evaluation:

1. Quizzes
2. Tests
3. Class participation

Course Content Outline:

1. Communication worker safety
 - a. Job conditions
 - i. Cold weather
 - ii. Night work
 - iii. Confined space
 - iv. High winds
 - v. Noise
 - b. Driving hazards
 - i. Secure loads
 - ii. Trailering
 - iii. Distractions
 - iv. Vehicle housekeeping
 - c. Pole climbing hazards
 - i. Weather
 - ii. Deterioration
 - iii. Impalements
 - iv. Pole steps
 - v. Electrical
 - d. Inclement weather
 - i. Ice
 - ii. Lightning
 - iii. Wind
 - iv. Heat
 - v. Cold
 - e. Pole climbing
 - i. Electrical
 - ii. Physical
 - iii. Vehicles
 - f. Worker competency
 - i. Driving privileges
 - ii. Substance abuse
 - iii. Vehicle inspection
 - iv. Legal
 - g. Pole climbing procedures
 - i. Pole inspection
 - ii. Grounding wires
 - iii. Electrical checks
 - iv. Insect activity
 - v. Ageing
 - vi. Arcing
2. OSHA: rights and responsibilities
 - a. Purpose and function
 - i. Worker protection
 - ii. History
 1. William Steiger Act
 2. Federal OSHA
 - b. Terms
 - i. Competent person
 - ii. Qualified person
 - iii. Authorized person
 - iv. Standard
 - v. Asbestos
 - vi. Lead

- vii. Fall protection
- viii. Lockout/tag out
- ix. Material Safety Data Sheet MSDS
- x. Label placards
- c. Expectations
 - i. Employer
 - 1. Safety applications
 - 2. Accident prevention
 - 3. Hazard recognition
 - ii. Employee
 - 1. Training
 - 2. Rules enforcement
- d. Standards
 - i. General safety
 - ii. Definitions
 - iii. Training
- e. Training
 - i. Fall protection
 - ii. Personal protective equipment PPE
 - iii. Hazard communication
 - iv. Asbestos/lead

Resources

Independent Electrical Contractors Chesapeake and Western Electrical Contractors Association. *Electrical Pre-Apprenticeship Workforce Development*. 2013 Edition. Cengage Learning Clifton Park, NY, 2013.

BICSI. *Information Technology Systems Installation*. 6th Edition. BICSI Tampa, Florida, 2012.

National Fire Protection Association (NFPA). *National Electric Code 2011 (NEC)*. 2011 Edition. NFPA Quincy, Massachusetts, 2010.

Resources Other

1. www.safety-compliance.com (<http://www.safety-compliance.com>)
2. www.osha.gov/workers

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