

JRYM 434G: CONSTRUCTION ELECTRICAL SAFETY HAZARDS

Foothill College Course Outline of Record

Heading	Value
Effective Term:	Fall 2026
Units:	0
Hours:	1 lecture per quarter (1 total per quarter)
Prerequisite:	This course is limited to students employed with Cupertino Electric.
Degree & Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Student Learning Outcomes

- Identify and mitigate common electrical hazards in construction environments, including overhead lines and live circuits
- Implement the Assured Equipment Grounding Conductor Program (AEGCP) effectively on job sites
- Demonstrate the correct selection, inspection, and use of ground fault circuit interrupters (GFCIs)

Description

This course covers topics related to basic construction electrical hazards and safe practices, including Assured Equipment Grounding Conductor Program (AEGCP) and ground fault circuit interrupters (GFCIs).

Course Objectives

The student will be able to:

1. Identify and mitigate basic electrical hazards in construction environments through the application of safe work practices.
2. Demonstrate knowledge of the Assured Equipment Grounding Conductor Program (AEGCP) and the correct use of ground fault circuit interrupters (GFCIs) to ensure electrical safety compliance.

Course Content

1. Information on the following topics:
 - a. Deaths by electrical hazards
 - b. The effects of electricity on the human body
 - c. Working around power lines, contact with live circuits, ground fault circuit interrupters (GFCIs)
 - d. Proper and improper use of extension cords
 - e. Electrical power tool safety
 - f. What to do if a person gets shocked

Lab Content

Not applicable.

Special Facilities and/or Equipment

1. When taught in person, this training must be conducted in a clean classroom with internet access, necessary hardware and software, and course materials, if applicable.
2. When taught online, this course requires access to CEI's Learning Management System (Amplify), continuous access to a computer with the necessary software and hardware to view video content, and a reliable intranet connection.

Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

Quiz

Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

Lecture

Representative Text(s) and Other Materials

CEI EH&S program and applicable Fed/OSHA and/or Cal/OSHA standards, provided by Cupertino Electric.

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

No assignments.

Discipline(s)

Electricity