

JRYM 424: HILTI/NON-HILTI POWDER-ACTUATED TOOL OPERATOR/HILTI LASER TOOL OPERATOR

Foothill College Course Outline of Record

Heading	Value
Effective Term:	Fall 2026
Units:	0
Hours:	1-5 hours lecture 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

- Set up laser levels for horizontal and vertical alignment tasks
- Calibrate devices to ensure accuracy within manufacturer tolerances
- Apply laser safety protocols to prevent eye exposure to the beam
- Store and transport precision laser equipment to prevent damage
- Demonstrate safe operation of HILTI powder-actuated tools according to HILTI guidelines and CEI safety standards
- Perform correct storage procedures for powder-actuated tools to maintain safety and tool integrity

Description

This course covers topics related to the safe operation, handling, and storage of HILTI or non-HILTI powder-actuated tool(s) or HILTI laser tool(s).

Course Objectives

The student will be able to:

1. Use HILTI laser tools or powder-actuated tools safely and effectively in accordance with manufacturer guidelines and company's safety protocols.
2. Properly handle and care for laser tools, as applicable.
3. Inspect tools before use and store properly to prevent damage or misalignment.

Course Content

1. 1 hour training for HILTI Laser Tool Operator
 - a. Overview of HILTI laser tool functions and applications
 - b. Identification of laser classification and related hazards (e.g., eye exposure risks)
 - c. Safe operation procedures

- d. Care of laser tools and correct storage practices to prevent damage or misalignment
2. 2 hours training for HILTI or non-HILTI Powder-Actuated Tool Operator
 - a. Introduction to HILTI or non-HILTI powder-actuated tools and their applications
 - b. Identification of tool components and functions
 - c. Safety hazards associated with powder-actuated tools
 - d. Properly handle, load, and fire procedures
 - e. Tool inspection and maintenance
 - f. Safe storage practices; selection and use of appropriate fasteners and charges
 - g. Specific safety protocols and HILTI manufacturer guidelines

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:

Results of skills demonstration
Quiz

Method(s) of Instruction

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

Lecture
Classroom demonstration

Representative Text(s) and Other Materials

CEI EH&S program, applicable Fed/OSHA and/or Cal/OSHA standards, and the Equipment Operator's and Safety Manual, provided by Cupertino Electric.

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

No assignments.

Discipline(s)

Electricity