



Course Outline

ELM 198 Special Topics in Electrical and Mechanical Technology

Development/Revision Date: 11/3/2022 by Deb Conrad

Number of Credits: 0.5 - 4

Transferability of Course within Nevada: May not transfer towards an NSHE bachelor's degree.

Prerequisites: Must be admitted to an approved apprenticeship program.

Course Description

Basic understanding and hands-on experience of current theories in electrical and mechanical technologies as well as advanced technologies utilized in industry.

Objectives

The objectives of this course are to provide specific knowledge, abilities, and skills as outlined in broad electrical, construction, and mechanical technology topics, as well as provide practical experience. The course allows flexibility in addressing local industry needs for specific employee skill gaps and pilot topics with the intent of incorporating these topics into manufacturing, electrical, and construction programs.

Linkage to WNC's Institutional Learning Outcomes

The course objectives relate to Student Learning Outcome 7, Career Preparation: Identify, describe, and apply information in the discipline or career area of choice sufficient for further study and/ or demonstrate competencies required to succeed in the workplace.

Student Learning Outcomes

Students who complete this class should be able to:

1. Understand and demonstrate specific knowledge, abilities, and skills in electrical, construction, and mechanical technology topics determined collaboratively among the faculty member, industry, and student.
2. Synthesize and expand existing knowledge, abilities and skills and apply them to solve industry-relevant issues or problems.

Instructional Methods and Modes

Methods of instruction for this course may include: student reading assignments, face-to-face lecture of material, hands-on lab training and on-the-job training.

Assessment Methods


Assessment methods will include classroom discussion, assignments, and tests which will challenge the student's understanding of the content and prepare the student to complete the hands-on labs confidently and safely, competency completion through hands-on practice and troubleshooting during lab sessions and on-the-job training, and passing the final exam.


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