

## Clackamas Community College

### Online Course/Outline Submission System

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#### Section #1 General Course Information

**Department:** Apprenticeship

**Submitter**

First Name: Shelly

Last Name: Tracy

Phone: 0945

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**Course Prefix and Number:** APR - 110UW

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**# Credits:** 4

**Contact hours**

Lecture (# of hours):

Lec/lab (# of hours): 80

Lab (# of hours):

Total course hours: 80

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

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**Course Title:** Initial Substation Wireman Training

**Course Description:**

Initial Substation Wireman apprentice training is designed to instruct apprentice candidates on selecting and fitting specific equipment and use of proper working techniques on substation structures and equipment.

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**Type of Course:** Career Technical Apprenticeship

Can this course be repeated for credit in a degree?

**No**

Does this course map to any general education outcome(s)?

**No**

Is this course part of an AAS or related certificate of completion?

**Yes**

**Name of degree(s) and/or certificate(s):** Electrician Apprenticeship Technologies AAS

Are there prerequisites to this course?

**No**

Are there corequisites to this course?

**No**

Are there any requirements or recommendations for students taken this course?

**No**

Are there similar courses existing in other programs or disciplines at CCC?

**No**

Will this class use library resources?

**No**

Is there any other potential impact on another department?

**No**

Does this course belong on the Related Instruction list?

**No**

GRADING METHOD:

A-F Only

**Audit: No**

When do you plan to offer this course?

**Not every term**

Is this course equivalent to another?

If yes, they must have the same description and outcomes.

**No**

Will this course appear in the college catalog?

**No**

Will this course appear in the schedule?

**No**

**Student Learning Outcomes:**

Upon successful completion of this course, students should be able to:

1. conduct a Tailboard,
2. explain the types of equipment and hazards of a substation,
3. demonstrate proper user of safety gear,
4. explain the importance of a clean work site,
5. procure a Commercial Drivers License (CDL) and demonstrate responsible driving of large trucks,
6. identify proper safety gear used for fall restraint and demonstrate how to put it on and use it,
7. demonstrate how to safely get on and off and move around steel structures using ladders,
8. demonstrate proper rigging techniques, the ability to use hand line to pull materials up and down to the work position;
9. explain guidelines for confined space entry and air analysis,
10. set up rescue equipment on top of a transformer,
11. explain Top Man and Ground Man duties,
12. successfully climb a steel structure/communications tower using a cable restraint device,
13. work on construction crew with shovel, trencher, pull wire and run conduit;
14. properly use hand tools; drill motors, saws, benders, hickies;
15. work safely with maintenance crew on oil equipment,
16. work safely in proximity to energized circuits in a substation,
17. demonstrate proper rigging.

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***This course does not include assessable General Education outcomes.***

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**Major Topic Outline:**

1. Tailboard.
2. Equipment and hazards of a substation.
3. Safety gear.
4. Clean work site.
5. CDL.
6. Safety gear around fall restraint.
7. Cable restraint device.
8. Ladder safety.
9. Materials in a good work position.
10. Confined space entry, air analysis.
11. Rescue on top of the transformers.
12. Top Man and Ground Man duties.
13. Use of shovel, trencher, pull wire and run conduit.
14. Use hand tools; drill motors, saws, benders, hickies.
15. Maintenance crew on oil equipment.
16. Energized circuits to substation.
17. Proper rigging.

**Does the content of this class relate to job skills in any of the following areas:**

- |                                      |           |
|--------------------------------------|-----------|
| 1. Increased energy efficiency       | <b>No</b> |
| 2. Produce renewable energy          | <b>No</b> |
| 3. Prevent environmental degradation | <b>No</b> |
| 4. Clean up natural environment      | <b>No</b> |
| 5. Supports green services           | <b>No</b> |

Percent of course: 0%

First term to be offered:

**Next available term after approval**

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