

**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

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**Course Prefix and Number:**APR - 126UL

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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:**Troubleman Training

**Course Description:**

Instruct six-step apprentices on how to perform trouble work as a Troubleman. The main focus is to learn to properly secure and clear the trouble areas in order to restore service while protecting life and property.

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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):**Electrical Apprenticeship 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?

**Yes**

**Recommendations:**None

**Requirements:**6th step line apprentice or new hire journeyman lineman

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 or Pass/No Pass

**Audit:Yes**

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. explain the purpose/function of radio controls and indicators,
2. name street/area light fault categories,
3. identify a minimum of four substation checks or emergency switching tasks performed by a journeyman,
4. differentiate between Overhead Switching and URD Switching,
5. explain the meter work activities that a troubleman performs,
6. summarize trouble job fault categories,
7. practice safety in work procedures.

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

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Major Topic Outline:

1. Troubleman role and responsibilities.
2. Using the radio.
3. Troubleman protective wear, tools and equipment.
4. Street and area lights.
5. Switching: general, substation, overhead, underground residential distribution (URD) and underground commercial distribution (UCD).
6. Safety work practice.
7. Meter work.
8. Overhead trouble call.
9. Underground transmission call (UTC) trouble call.
10. Miscellaneous trouble calls.

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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