

**Clackamas Community College**

## Online Course/Outline Submission System

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**Section #1 General Course Information****Department:**Apprenticeship**Submitter**

First Name: Shelly

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**Course Prefix and Number:**APR - 291IE**# Credits:**2**Contact hours**

Lecture (# of hours): 27

Lec/lab (# of hours):

Lab (# of hours):

Total course hours: 27

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.

**Course Title:**NEC Exam Prep I**Course Description:**

This course is designed to prepare students for the electrical general journey level examinations for the States of Oregon and Washington. The course is based on tests designed to challenge the student to navigate the National Electric Code and Oregon and Washington rules and standards. Each test is designed to simulate the three-hour, 52 question general journey level tests. This course is one of four with the same design and theme which each have a unique set of tests to enhance the students' knowledge.

**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?

**No**

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:**Completion of four years of apprenticeship classes

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: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 how to navigate the National Electric Code (NEC) NFPA 70,
2. identify where Oregon rules supersede the NEC,
3. identify where Washington rules supersede the NEC,
4. explain how to properly apply tables and charts,
5. properly identify NEC terminology and how it relates to test questions,
6. navigate with Oregon OAR and ORs,
7. navigate with Washington RCW and WAC.

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

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**Major Topic Outline:**

1. NEC Chapters.
2. NEC tables.
3. Oregon ORAR and ORS.
4. Washington WAC and RCW.
5. Wiring methods.
6. Grounding and bonding.
7. Motors and controls.
8. Places of assembly.

**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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