

Clackamas Community College

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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 - 245IE**# Credits:**3**Contact hours**

Lecture (# of hours): 36

Lec/lab (# of hours):

Lab (# of hours):

Total course hours: 36

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 Analysis I**Course Description:**

This course teaches how the National Electrical Code (NEC) NFPA 70 is arranged, covering its introduction, chapters, articles, parts, and sections. The student will learn to navigate and understand the relationship each part of the Code has to the other parts and will develop an in-depth comprehension of the verbiage and layout of the NEC to become adept at using the Code.

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 & CC

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: 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. identify the different chapters of the NEC,
2. identify in which chapter an article can be located,
3. explain how the different chapters work together,
4. demonstrate the ability to maneuver through the NEC to find answers to questions about electrical installations,
5. use the contents and index to navigate the NEC,
6. identify specific areas of an article to locate answers.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Orientation, NEC introduction
2. Wiring and Protection.
3. Wiring Methods and Materials.
4. Equipment for General Use.
5. Special Occupancies.
6. Special Equipment.
7. Special Conditions.
8. Communication Systems.

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

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

Percent of course:0%

First term to be offered:

Next available term after approval

:
