

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

Email: shellyt

Course Prefix and Number:APR - 265IE**# 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 III**Course Description:**

This course takes an in-depth look at Chapters 4 and 5 of the National Electrical Code (NEC) NFPA 70. Oregon OAR 918 and ORS 479 as well as Washington RCW 19.28 and WAC 296-46B will be covered in this course.

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 how flexible cords are utilized in electrical installations,
2. discuss the different types of switches and installation requirements,
3. explain the requirement of luminaire installation,
4. design motor circuits,
5. design transformer installations,
6. discuss hazardous locations,
7. explain installation demands of a health care facility,
8. identify wiring methods in places of assembly.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Cords, switches, and receptacles.
2. Luminaires and lighting systems.
3. Appliances and heating equipment.
4. Motors, motor circuits, and controllers.
5. Air conditioning and refrigeration.
6. Transformers, phase converters, capacitors, and batteries.
7. Hazardous locations.
8. Health care facilities.
9. Places of assembly.
10. Recreational facilities and marinas.

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

:
