

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 - 134IE**# 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:Residential Wiring I**Course Description:**

The focus is on the fundamentals of electrical installations in residential; based on the National Electrical Code (NEC) and Oregon Electrical Specialty Code (OESC).

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 and 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 proper personal protective equipment (PPE) for the job,
2. identify potential safety hazards in residential construction,
3. solve blueprint layout using architects scale,
4. define electrical print symbols,
5. explain outlet location and mounting height,
6. explain the NEC requirements for conductor sizing,
7. design outlet layout for living room and bedrooms,
8. identify grounded and grounding conductor,
9. demonstrate how to wire switches,
10. describe the operations of GECI and AGCI,
11. differentiate IC versus non IC.
12. discuss and understand basic service requirements.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Mitigate construction hazards with proper PPE.
2. Read residential prints.
3. Layout outlets in living room and bedrooms.
4. GECI and AGCI.
6. Switch optics and how to wire each option.
7. Grounded and grounding.

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

:
