Clackamas Community College

Online Course/Outline Submission System

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Section #1 General Course Information

Department: Apprenticeship

Submitter

Reject

First Name: Shelly Last Name: Tracy Phone: 0945 Email: shellyt

Course Prefix and Number: APR - 112UL

Credits: 5

Contact hours

Lecture (# of hours): 55 Lec/lab (# of hours): Lab (# of hours):

Total course hours: 55

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: Outside Electrical Basic Theory II

Course Description:

Instructs first year, second term apprentices in electrical-related training. National Electric Code (NEC) standards, application of electrical Direct Current (DC) theory, including Ohms law, electrical grid components, rigging, OSHA regulations, electrical terminology and mathematical applications.

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)?

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http://webappsrv.clackamas.edu/courserequest/viewrequest.aspx

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
Are there prerequisites to this course?
Yes
Pre-reqs: APR-111UL Outside Electrical Basic Theory I
Have you consulted with the appropriate chair if the pre-req is in another program?
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?
Yes
Have you talked with a librarian regarding that impact?
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: No
When do you plan to offer this course?

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√ Winter

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 individual characteristics of different types of conductors,
- 2. determine power ratings of components in series, parallel and combination circuits;
- 3. apply Ohm's law to determine the current through any branch or component of a circuit,
- 4. follow National Electric Code standards,
- 5. apply rigging techniques using a capstan to set pole structures,
- 6. cite OSHA regulations that pertain to the job of a lineman,
- 7. use specific electrical terms on the job.

This course does not include assessable General Education outcomes.

Major Topic Outline:

- 1. National Electric Code Standards.
- 2. Ohm's Law.
- 3. DC Theory.
- 4. Electrical terminology.
- 5. Lineworker rigging.
- 6. OSHA high voltage & telecommunication regulations.

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

Increased energy efficiency
Produce renewable energy
Prevent environmental degradation
Clean up natural environment
Supports green services

Percent of course: 0%

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First term to be offered:

Next available term after approval

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