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 - 218LE

 # Credits: 4

Contact hours

Lecture (# of hours): 48
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 48

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: Fire Alarm Systems

Course Description:

This course covers the basics of Fire Alarm systems for the Limited Energy License A and B. The class will cover the basics of National Fire Protection Association (NFPA) 72 and National Electrical Codes (NEC) 760. It will cover the different styles of circuits, wiring and devices and their components. Students will also learn system drawing and math.

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, Electrician Apprenticeship Technologies Certificate of Completion

Are there prerequisites to this course?

Yes

Pre-reqs: Accepted into the Limited Energy Apprenticeship Program

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?

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 and apply correct fire alarm terminology,
2. identify and describe the different types of initiating and notification devices,
3. describe the basic requirements of a fire alarm system,
4. review and understand fire alarm drawings,
5. explain the basic requirements for installing a fire alarm system,
6. explain the basic requirements for servicing fire alarm systems,
7. describe the basic requirements for testing a fire alarm system,
8. demonstrate problem solving using OHM's law,
9. identify the requirements for nurse call systems.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Introduction to NFPA 72.
2. NFPA 72 Fundamentals.
3. NFPA 72 Protected Premises.
4. NEC 760.
5. Review basic fire alarm plans including, basic math, OHM's Law, voltage drop math.
6. Inspection, testing, & maintenance.
7. Basic fire alarm service.
8. Oregon Requirements for nurse call systems.
9. Basics of nurse call systems.
10. Nurse call equipment; operation and servicing of nurse call 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

:   4/15/2014