

Clackamas Community College

Online Course/Outline Submission System

 Show changes since last approval in red

Print

Edit

Delete

Back

Reject

Publish

Section #1 General Course Information**Department:**Apprenticeship**Submitter**

First Name: Shelly

Last Name: Tracy

Phone: 0945

Email: shellyt

Course Prefix and Number:APR - 177PB

Credits:3**Contact hours**

Lecture (# of hours): 33

Lec/lab (# of hours):

Lab (# of hours):

Total course hours: 33

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:Plumbing Related Science**Course Description:**

Installation practices: venting materials, sizing, and hangers and sewage pumps and ejectors. Related science: water properties, pressure, hydraulics, and traps; air, manometers, pressure testing and air chambers. Rigging & hoisting: safety, concepts, knots & hitches, hoists & pulleys, ladders & scaffolds, and hand signals.

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):Construction PB.AAS and CC

Are there prerequisites to this course?

Yes

Pre-reqs:Successful completion of APR-167PB

Have you consulted with the appropriate chair if the pre-req is in another program?

Yes (A 'Yes' certifies you have talked with the chair and have received approval.)*

Are there corequisites to this course?

No

Are there any requirements or recommendations for students taken this course?

Yes

Recommendations:None

Requirements:Accepted into the Plumber's Apprenticeship program

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. accurately apply knowledge of venting materials and sizing to plumbing installations that meet code requirements,
2. demonstrate an understanding and knowledge of water pressure, plumbing traps, manometers, etc. to troubleshoot, repair and install plumbing fixtures to meet code requirements.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. assemble code books & review administration
2. Plumber's math
3. Rigging & Hoisting
4. Manometers, pressure testing, water hammers and air chambers
5. Water properties, pressure, hydraulics and traps
6. Venting materials – sizing and hanging process

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

:
