

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 - 157PB

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 Pipe Sizing & Advanced Math**Course Description:**

Learn water pipe sizing & materials, water treatment, sewage, drainage, stacks, distribution systems, cross-connection protection, hot water heater types and the related codes. Advance mathematical skills to include square roots, cube roots, offsets, area and volume calculations, and lead & oakum.

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):AAS>CONSTRUCTPB & CC>CONSTRUCTPB

Are there prerequisites to this course?

Yes

Pre-reqs:Successful completion of APR-137PB

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 calculate proper pipe materials and sizing for a plumbing installation,
2. demonstrate and apply knowledge of water treatment, sewage and drainage to logic of plumbing layout;
3. demonstrate the ability to correctly apply knowledge for selection and installation of hot water heaters,
4. apply codebook knowledge to installation procedures,
5. demonstrate the ability to complete mathematical calculations relative to plumbing installation.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Introductions, orientation, syllabus and water fixture units.
2. Water pipe sizing & water treatment.
3. Mathematics for plumbers.
4. Hot water heaters.

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

:
