APED 355 Course Outline as of Spring 2020

CATALOG INFORMATION

Dept and Nbr: APED 355 Title: APP PLUMBERS, 6TH SEM
Full Title: Apprentice Plumbers, Sixth Semester
Last Reviewed: 5/13/2024

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	2.00	Lecture Scheduled	0	18	Lecture Scheduled	0
Minimum	2.00	Lab Scheduled	6.00	8	Lab Scheduled	108.00
		Contact DHR	0		Contact DHR	0
		Contact Total	6.00		Contact Total	108.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 0.00 Total Student Learning Hours: 108.00

Title 5 Category:	AA Degree Non-Applicable
Grading:	Grade Only
Repeatability:	00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:	
Formerly:	

Catalog Description:
Related supplemental instruction for apprentice plumbers and pipefitters

Prerequisites/Corequisites:

Recommended Preparation:

Limits on Enrollment:
Indentured apprentice

Schedule of Classes Information:
Description: Related supplemental instruction for apprentice plumbers and pipefitters (Grade Only)
Prerequisites/Corequisites:
Recommended:
Limits on Enrollment: Indentured apprentice
Transfer Credit:
Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	**Area**	Effective:	Inactive:
CSU GE:	**Transfer Area**	Effective:	Inactive:
IGETC:	**Transfer Area**	Effective:	Inactive:

CSU Transfer:	Effective:	Inactive:
UC Transfer:	Effective:	Inactive:

CID:

Certificate/Major Applicable:
Certificate Applicable Course

COURSE CONTENT

Student Learning Outcomes:
At the conclusion of this course, the student should be able to:
1. Describe and demonstrate plumbing principles and regulations related to the plumbing and pipefitting trade.
2. Apply best practices in practical environment related to the plumbing and pipefitting trade.

Objectives:
At the conclusion of this course, the student should be able to:
1. Solve mathematical problems involving piping
2. Demonstrate welding techniques
3. Relate science and mechanics principles to the topics of this course
4. Describe building water systems
5. Describe the basic factors of electricity
6. List components of refrigeration controls

Topics and Scope:

1. Mathematics related to plumbing and pipefitting
2. Welding
3. Science and mechanics related to plumbing and pipefitting
4. Basic electricity

Assignment:

1. Homework assignments (1 to 2 sets per week)
2. Quizzes and examinations (4 to 6 per semester)
3. Class performances and field work (on-the-job demonstrations) of skill development, safety practices, equipment, and material handling.

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None	Writing 0 - 0%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework assignments; field work	Problem solving 10 - 25%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Class performances; field work	Skill Demonstrations 50 - 65%

Exams: All forms of formal testing, other than skill performance exams.

Quizzes and examinations to include multiple choice, true/false, matching items, and completion	Exams 10 - 20%

Other: Includes any assessment tools that do not logically fit into the above categories.

Attendance and participation	Other Category 5 - 10%

Representative Textbooks and Materials:
Conservation and Safe Handling of Refrigerants. International Pipe Trades Joint Training Committee. 2009 (classic)
Refirgerant Controls. International Pipe Trades Joint Training Committee. 2009 (classic)
Refrigeration. International Pipe Trades Joint Training Committee. 2009 (classic)
Basic Electricity. International Pipe Trades Joint Training Committee. 2008 (classic)
Oxy Fuel Welding and Shielded Metal-Arc Welding. International Pipe Trades Joint Training Committee. 2008 (classic)