

## GAS UTILITY WORKER

0332- 0749

### Program Description

The Gas Utility Worker Program consists of general education courses and core courses that feature specific competencies in the safe construction and operation of natural gas distribution systems. The program takes a student through a series of basic and advanced skill sets designed to enhance on-the-job performance and to quickly bring the student to the level of full-functioning, skilled worker once employed. Upon completion, students who graduate from this program will be prepared to work as utility worker in the gas utility industry.

### Course Information

Course #	Course Title	Lecture	Lab	Credit Hours
0045-0107	Math 107	3.0	0.0	3.0
0095-0101	Speech 101	3.0	0.0	3.0
0085-0113	History 113	3.0	0.0	3.0
0032-0120	CIS 120	3.0	0.0	3.0
0032-0107	English 107	3.0	0.0	3.0
0332-0434	Introduction to Plumbing	3.0	0.0	3.0
0332-0435	Tools and Equipment	2.0	0.0	2.0
0332-0449	Professional Development	2.0	0.0	2.0
0332-0452	Basic Electrical Theory	3.0	0.0	3.0
0332-0448	Vocational Physical Training I	0.0	2.0	1.0
0332-0462	Vocational Physical Training II	0.0	2.0	1.0
0332-0463	Vocational Physical Training III	0.0	2.0	1.0
0432-609	Construction Safety II	3.0	0.0	3.0
0332-XXX	Gas Utility Training I*	5.0	3.0	6.0
0332-XXX	Gas Utility Training II*	4.0	6.0	6.0
0332-XXX	Gas Utility Training III*	2.0	3.0	3.0
0332-XXX	Gas Utility Training IV*	3.0	3.0	4.0
<b>TOTAL CREDIT HOURS</b>				<b>50</b>



## Course Syllabus

**Program Name:** Gas Utility Worker

**Course Title:** Gas Utility Training I

**Course Number:** 332Tech XXX

**Credit Hours:** 6.0

**Prerequisites:** OSHA 30 Safety course

### **Course Description:**

Gas Utility Training I introduces students to the principles, processes, and sub-systems applicable to the safe construction and operation of natural gas distribution systems, for delivery of natural gas to end-use customers. Classroom and practical room training will ensure that students possess the necessary skills and knowledge to perform duties in an entry-level gas utility worker job classification.

### **Course Objectives:**

- Discuss different types of hand and pneumatic tools
- Describe construction equipment safety and operation procedures
- Explain how natural gas distribution system works
- Be familiarized with maintenance equipment

### **Student Learning Outcomes:**

After completing this course, the student shall be able to:

1. Demonstrate knowledge of the gas distribution sub-systems that deliver natural gas to end-use customers.
2. Recognize abnormal conditions and knowledge of applicable emergency and safety procedures.
3. Understand properties of natural gas combustion and the hazards associated with natural gas distribution and end-use.
4. Identify various equipment and tools used in the gas industry; body-mechanics training on gas utility tools.
5. Demonstrate knowledge of testing gas piping for tightness, and principles for investigating and repairing inside and outside gas leaks.

### **Methods of Instruction:**

Lectures, handouts, videos  
Demonstrations and hands-on applications



**Methods of Evaluation:**

Student performance will be evaluated through the use of the following: instructor evaluation, assignments, examinations, quizzes, projects, presentations, class participation, hands-on and other evaluative exercises designed to ensure that the course objectives are met.

**Suggested Text(s)/Curriculum Materials:**

**Sections from the PGL Distribution Manual Volume 1 and Field Service Manual**

Helmet, vest, and safety shoes. (goggles will be provided)