

ATPL-1070: PIPE FITTINGS, VALVES, AND SUPPORTS

Cuyahoga Community College

Viewing: ATPL-1070 : Pipe Fittings, Valves, and Supports

Board of Trustees:

2012-06-28

Academic Term:

Spring 2019

Subject Code

ATPL - Applied Ind Tech - Plumbers

Course Number:

1070

Title:

Pipe Fittings, Valves, and Supports

Catalog Description:

Identifies the pipe, pipe fittings, valves and supports that are used in the plumbing trade and discusses the fabrication and installation methods that are required for proper and safe installations.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

Departmental approval: admission to Plumbers' apprenticeship program.

Outcomes

Course Outcome(s):

1. Identify the components of plumbing systems.

Course Outcome(s):

2. Install the various pipe components that are required for proper installations.

Methods of Evaluation:

1. Homework
2. Quizzes
3. Tests
4. Participation

Course Content Outline:

1. Component identification
 - a. Pipe
 - i. Cast iron
 - ii. Polyvinyl chloride (PVC)
 - iii. Copper
 - iv. Steel
 - b. Fittings

- i. Bends and two-way fittings
 - ii. Branch fittings
 - iii. Flanges and gaskets
 - c. Valves
 - i. Check
 - ii. Gate
 - iii. Pressure relief
- 2. Installation
 - a. Pipe and pipe connection
 - i. Mechanical
 - ii. Welded
 - iii. Chemical
 - iv. Threaded
 - b. Suspension systems
 - i. Hangers
 - ii. Pipe bedding
 - iii. Fasteners
 - c. Shop exercises
 - d. Safety considerations

Resources

Graces, W.V. *The Pipefitters Blue Book*. Revised. Webster, Tx., 2011.

Frankland, Thomas. *Pipe Fitter's and Pipe Welder's Handbook*. Revised. New York: McGraw-Hill, 2005.

State of Ohio. *2007 Ohio Plumbing Code*. Country Club Hills, IL : International Code Council, 2007.

Resources Other

1. Pipe, Fittings, Valves, Supports and Fasteners, 1st Edition – International Pipe Trades Joint Training Committee
2. OSHA Standards for Construction – 29 CFR 1926 – Current edition

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