

ATPL-1000: CARE AND USE OF TOOLS

Cuyahoga Community College

Viewing: ATPL-1000 : Care and Use of Tools

Board of Trustees:

2012-06-28

Academic Term:

Spring 2019

Subject Code

ATPL - Applied Ind Tech - Plumbers

Course Number:

1000

Title:

Care and Use of Tools

Catalog Description:

Identifies the hand and power tools used in the plumbing industry and discusses the operation and respective safety concerns as prescribed in the standards found in the Occupational Safety and Health Administration (OSHA) and in the manufacturer's specifications.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

Departmental approval: admission to Plumbers' apprenticeship program.

Methods of Evaluation:

1. Homework
2. Quizzes
3. Shop exams
4. Final exam

Course Content Outline:

1. Tool identification
 - a. Hand tools
 - i. Layout, measurement and general
 - ii. Cutting hand tools
 - iii. Clamping devices
 - b. Power tools
 - i. Pipe threading machines
 - ii. Drilling and boring
 - iii. Cutting and rodding
2. Use of tools
 - a. Layout tools
 - i. Centerline establishment
 - ii. Line transfer
 - iii. Offsets and angles
 - b. Installation

- i. Tube cutters
- ii. Wrenches and clamps
- iii. Saws
- c. Power tools
 - i. Drills
 - ii. Boring machines
 - iii. Cutting devices
- 3. Tool maintenance
 - a. Lubrication
 - b. Inspection for defects
- 4. Safety
 - a. OSHA regulations
 - i. Personal protective equipment
 - ii. Fall protection
 - iii. Aerial lifts
 - b. Manufacturer's specifications

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.

Resources Other

RESOURCES:

Use and Care of Tools, 4th Edition – International Pipe Trades Joint Training Committee

OSHA Standards for Construction – 29 CFR 1926 – Current Edition

www.releeco.com/productnew.php

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