

ATPL-1030: STATE OF OHIO PLUMBING CODE I

Cuyahoga Community College

Viewing: ATPL-1030 : State of Ohio Plumbing Code I

Board of Trustees:

2012-06-28

Academic Term:

Spring 2019

Subject Code

ATPL - Applied Ind Tech - Plumbers

Course Number:

1030

Title:

State of Ohio Plumbing Code I

Catalog Description:

Introduction to the State of Ohio code for plumbing. Covers general regulations, definitions and specific installations including hot water tanks and storm water systems.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

Departmental approval: admission to Plumbers' apprenticeship program.

Outcomes

Course Outcome(s):

A. Review the various divisions of the state plumbing code.

Objective(s):

1. Identify the general requirements of the code.
2. Discuss the administrative hierarchy.
3. Discuss the various subsections that comprise the code.

Course Outcome(s):

B. Identify the respective terms that are used in the general requirements.

Objective(s):

1. Interpret the code language to define specific terms.
2. Recognize the respective code applications as they relate to the construction process.

Course Outcome(s):

C. Interpret the code to properly install storm water disposal systems.

Objective(s):

1. Identify the code requirements for roof drains, conductors and leaders.
2. Identify the requirements for underground piping
3. Identify various subsoil and sub-drains for storm water.

Course Outcome(s):

D. Define the code requirements for hot water installations.

Objective(s):

1. List the general requirements.
 2. Identify the different piping connections.
 3. Select the correct safety devices as listed in the code.
 4. Review the code for proper and safe hot water installation.
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Methods of Evaluation:

1. Quizzes
2. Tests
3. Projects
4. Skills assessment

Course Content Outline:

1. Plumbing code divisions
 - a. General requirements
 - i. Residential
 - ii. Commercial
 - iii. Industrial
 - iv. Structural safety
 - v. Plumbing component protection
 - b. Administrative hierarchy
 - i. Director of Commerce
 - ii. Building Standards
 - iii. Municipal Building Department/County
 - c. Subsections
 - i. Drainage
 - ii. Water supply
 - iii. Venting
2. General requirements
 - a. Definitions
 - i. Appliances and fixtures
 - ii. Special fixtures
 - iii. Systems
 - iv. Health
 - b. Public safety
3. Storm water disposal
 - a. Roof systems
 - i. Drains
 - ii. Conductors
 - iii. Leaders
 - b. Underground piping
 - i. Material types
 - ii. Installation sizing
 - iii. Clean-out requirements
 - c. Sub-soil drains
 - i. Soil types
 - ii. Drain requirements
 - iii. Effects of soil
4. Hot water tanks
 - a. Types of tanks
 - i. Heating method
 1. Electric
 2. Gas

- ii. Water supply
 - 1. Top fed
 - 2. Bottom fed
- iii. Tank versus heater
- b. General requirements
 - i. Drain valves
 - ii. Location
 - iii. Temperature control
- c. Safety devices
 - i. Pressure relief
 - ii. Shut-off valves
 - iii. Expansion tanks
 - iv. Drain pans

Resources

International Code Council. *Ohio Plumbing Code*. 1st ed. Washington, D.C., International Code Council, 2007.

International Pipe Trades Joint Training Committee. *Drainage*. 3rd ed. Annapolis, Md: International Pipe Trades Joint Training Committee, 2009.

Resources Other

1. www.ebook30.com/architecture/architecture/302592/urban-drainage-spon-text.html (<http://www.ebook30.com/architecture/architecture/302592/urban-drainage-spon-text.html>)
2. [www.amazon.com/Urban-](http://www.amazon.com/Urban-Drainage-Spon-David-Butler/dp/041545526X/) (<http://www.amazon.com/Urban-Drainage-Spon-David-Butler/dp/041545526X/>)**Drainage-Spon-David-Butler/dp/041545526X**
3. [www.ebookee.org/Urban-Drainage-Spon](http://www.ebookee.org/Urban-Drainage-Spon-Text_888653.html) (http://www.ebookee.org/Urban-Drainage-Spon-Text_888653.html)-**Text_888653.html**

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