

# ATPL-1220: GAS SYSTEMS

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## Cuyahoga Community College

### Viewing: ATPL-1220 : Gas Systems

**Board of Trustees:**

2012-06-28

**Academic Term:**

Spring 2019

**Subject Code**

ATPL - Applied Ind Tech - Plumbers

**Course Number:**

1220

**Title:**

Gas Systems

**Catalog Description:**

Study of the procedures followed in the installation of natural gas systems, pipe sizing, safety and the repair of natural gas systems.

**Credit Hour(s):**

2

**Lecture Hour(s):**

2

## Requisites

**Prerequisite and Corequisite**

Departmental approval: admission to Plumber's apprenticeship program.

**Methods of Evaluation:**

1. Homework
2. Quizzes
3. Tests

**Course Content Outline:**

1. Safety
  - a. Explosives
  - b. Personal protective equipment
  - c. Hand and power tools
2. Natural gases
  - a. Science of gas
  - b. Identification
  - c. Effects
    - i. Human health
    - ii. Environment
3. Piping systems
  - a. Types of pipe
    - i. Black steel
    - ii. Polypropylene
    - iii. Stainless steel
  - b. Tools and equipment
  - c. Sizing
  - d. Per code
4. Use of gas

- a. Applications
  - i. Burning
  - ii. Heating
  - iii. Appliances
- b. Commercial
- c. Residential

## Resources

International Code Council. *Ohio Gas Code*. 1st. Columbus, Ohio: State of Ohio, 2007.

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International Pipe Trades Joint Training Committee, Inc. *Gas Installations*. 4th. Upper Marlboro, Md: United Association, 2008.

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Treloar, R.D. *Plumbing Encyclopedia*. 4th. Hoboken, New Jersey: Wiley-Blackwell, 2008.

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

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## Resources Other

[www.electricity-tool.com/doc/86586-Yellow-Book:-Natural-Gas-Installation-Standards/](http://www.electricity-tool.com/doc/86586-Yellow-Book:-Natural-Gas-Installation-Standards/) **Book:-Natural-Gas-Installation-Standards...**

[www.waterstones.com/waterstonesweb/products/roy+treloar/gas+installation+technology/](http://www.waterstones.com/waterstonesweb/products/roy+treloar/gas+installation+technology/) **gas+installation+technology/**

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