

# APR 262 : PLUMBING ADVANCED WASTE SYSTEMS

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## Transcript title

Plumbing Advanced Waste System

## Credits

2

## Grading mode

Standard letter grades

## Total contact hours

40

## Other hours

40

## Prerequisites

APR 261.

## Course Description

Focuses on essential skills for advanced applications. Emphasizes sizing and installation of gas piping through theoretical instruction and hands-on practice. Explores the sizing of storm drainage systems, green plumbing techniques, and sustainable practices, such as rainwater and graywater harvesting. Covers the installation, sizing, and troubleshooting of compressed air lines and ensures a comprehensive understanding of these systems. Designed for Oregon state-registered apprentices in the plumbing trade.

## Course learning outcomes

1. Use a detailed drawing to identify system components, code requirements and installation requirements of gas piping.
2. Perform math equations to calculate rain water disposal and storm drainage.
3. Describe new green housing.
4. Harvest rain water and sizing.
5. Harvest gray water and sizing.

## Content outline

1. Sizing and installation of gas piping with hands-on instruction.
2. Sizing of storm drainage systems.
3. Reviews green plumbing practices.
4. Explores rainwater harvesting and graywater harvesting techniques.
5. Covers installation, sizing, and troubleshooting of compressed air lines.

## Required materials

Materials not required.