

Virginia Western Community College
BLD 140
Principles of Plumbing Trade I

Prerequisites

none

Course Description

Studies the plumbing trade, the structure of the plumbing trade, apprenticeship standards, job safety, tools of the trade, the approved installation of plumbing materials, types of sanitary drainage pipe and piping layout of sanitary piping. Lecture 3 hours per week.

Semester Credits: 3 Lecture Hours: 3 Lab/Clinical/Internship Hours: 0

Required Materials**Textbook:**

NCCER Plumbing Fourth Edition Level 1 ISBN#978-0-13-292163-3

Other Required Materials:

None

Course Outcomes

At the completion of this course, the student should be able to:

- **Understand the basics of plumbing**
- **Be able to safely and properly use basic plumbing tools and equipment**
- **Read plumbing blueprints**
- **Perform basic plumbing mathematics**

Topical Description

1. **Week 1: Introduction to Plumbing**
2. **Week 2: Safety**
3. **Week 3: Tools of the Trade**
4. **Week 4: Plumbing Math**
5. **Week 5: Introduction to Drawing**
6. **Week 6: Lab**
7. **Week 7: Plastic Pipe and Fittings**

8. Week 8: Copper Tube and Fittings
9. Week 9: Cast-Iron/Steel Pipe and Fittings
10. Week 10: Fixtures
11. Week 11: Lab
12. Week 12: DWV Systems
13. Week 13: Water Distribution systems
14. Week 14: Lab
15. Week 15: Lab and Review
16. EXAM

Notes to Instructors

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