

Plumbing Fundamentals



A DIVISION OF ECPI UNIVERSITY

NTT's *Plumbing Fundamentals* course provides an introduction to the core principles, systems, and safety practices of the plumbing trade. This course equips participants with essential knowledge of plumbing tools, understanding water systems, performing basic calculations, and adhering to industry standards and codes. The curriculum combines theoretical knowledge with practical demonstrations to ensure learners can apply their skills effectively in real-world scenarios.

WHAT THIS COURSE COVERS

- Introduction to Plumbing: History, Codes, and Core Principles
- Proper Use, Maintenance, and Safety of Plumbing Tools
- Essential Plumbing Mathematics and Practical Applications
- Overview of Water Systems, Waste Disposal, and Venting
- Selection and Installation of Piping Materials
- Installation and Support of Plumbing Fixtures
- Drainage and Venting System Design and Calculations
- Reading and Creating Plumbing Drawings and Rough-In Sheets

WHO SHOULD TAKE THIS

- Apprentice Plumbers
- Maintenance Technicians
- Facility Managers
- HVAC Professionals Transitioning to Plumbing
- Construction Supervisors
- Building Inspectors

COURSE OUTCOMES

As a result of completing this course, learners will be able to:

- Understand a Basic Plumbing System and Its Components
- Minimize System Failures Through Accurate Plumbing Design and Installation
- Improve System Efficiency by Applying Proper Tools and Techniques
- Enhance and Verify Compliance with Plumbing Codes and Standards
- Reduce Maintenance Costs Through Reliable Installation Practices
- Promote Safety in the Workplace by Adhering to Best Practices

COURSE FEATURES

- Instructor-Led Demonstrations of Plumbing Tools and Techniques
- Interactive Exercises in Plumbing Calculations and Drawings
- Guided Practice in Fixture Installation and Alignment
- Real-World Scenarios for Troubleshooting and Problem Solving
- Q&A Sessions for Personalized Learning



Lecture



Hands-on



ONSITE: 1-day (8 hours)



LIVE ONLINE: 1-Days (8 hours)



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Plumbing Fundamentals - Course Overview and Agenda - 01242025