

MASSACHUSETTS PLUMBING APPRENTICE

Plumbing Journeyman License Requirements

- High School Diploma or its equivalent
- 550 classroom hours
- 5,100 field hours under the supervision of a licensed Journeyman or Master
- Apprentices **MUST** apply for an apprentice license from the Board of State Examiners of Plumbers & Gas Fitters.

Plumbing Master's License Requirements

- **MUST** hold a Journeyman License for 1 year
- Additional 110 Tier V classroom hours
- Additional 1,700 field hours

THE BOARD OF STATE EXAMINERS OF PLUMBERS AND GAS FITTERS

Address: One Federal Street, Suite 600
Boston, MA 02110
Phone: (617) 727-3100
mass.gov/dpl

PLUMBING TIER 1

Course Curriculum Areas of Study:

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| • Basic Safety | • Introduction to Plumbing Math |
| • Introduction to Construction Math | • Introduction to Plumbing Drawings |
| • Introduction to Hand Tools | • Plastic Pipe and Fittings |
| • Introduction to Power Tools | • Copper Tube and Fittings |
| • Introduction to Construction Drawings | • Cast-Iron Pipe and Fittings |
| • Basic Rigging | • Carbon Steel Pipe and Fittings |
| • Basic Communication Skills | • Introduction to Plumbing Fixtures |
| • Introduction to Plumbing | • Introduction to Drain, Waste and Vent (DWV) Systems |
| • Plumbing Safety | |
| • Tools of the Plumbing Trade | |

PLUMBING TIER 2

Course Curriculum Areas of Study:

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| • Plumbing Math Two | • Types of Valves |
| • Reading Commercial Drawings | • Installing Fixtures and Valves |
| • Structural Penetrations, Insulation and Fire-Stopping | • Installing Water Heaters |
| • Installing and Testing DWV Piping | • Basic Electricity |
| • Installing Roof, Floor, and Area Drains | • Fuel Gas and Fuel Oil Systems |
| • Installing and Testing Water Supply Piping | |

IMPORTANT UPDATE

248 CMR 11.00: A reduction of the experience requirements for journeyman licenses down to 4 years, and the elimination of age-based continuing education exemptions.

WHAT THIS MEANS: You can now enroll in Plumbing Tiers 1 and 2 in the same year to complete your education hours in four years instead of five.

PLUMBING TIER 3

Course Curriculum Areas of Study:

- Plumbing Math Two
 - Reading Commercial Drawings
 - Structural Penetrations, Insulation and Fire- Stopping
 - Installing and Testing DWV Piping
 - Installing Roof, Floor, and Area Drains
 - Installing and Testing Water Supply Piping
 - Types of Valves
 - Installing Fixtures and Valves
 - Installing Water Heaters
 - Basic Electricity
 - Fuel Gas and Fuel Oil Systems
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PLUMBING TIER 4

Course Curriculum Areas of Study:

- Business Principles for Plumbers
 - Fundamentals of Crew Leadership
 - Water Pressure Booster and Recirculation Systems
 - Indirect and Special Waste
 - Hydronic and Solar Heating Systems
 - Codes
 - Private Water Supply Well Systems
 - Private Waste-Disposal Systems
 - Swimming Pools and Hot Tubs
 - Plumbing for Mobile Homes and Travel Trailer Parks
 - Introduction to Medical Gas and Vacuum Systems
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PLUMBING TIER 5

Course Curriculum Areas of Study:

- Review of all sections of the Massachusetts State Plumbing Code:
 - 248 CMR 3.00
 - 248 CMR 10.00
 - 248 CMR 11.00
- Review of all sections of:
 - NFPA-54-2012
 - NFPA-58-2011
 - Massachusetts Fuel Gas Code 248 CMR 4.00
 - Amendments for NFPA-54-2012 248 CMR 5.00
 - Large Gas Utilization Equipment 248 CMR 7.00 and Amendments to NFPA 58-2011 248 CMR 8.00
- Review of all plumbing related math covered in Tier I through Tier V
- Review of all sketches in Massachusetts State Plumbing Code Section 10.22 Figures
- Business Related Costs