



# MASTERS PLUMBING & GAS SCHOOL

## Course Catalog

### ALL COURSES ARE ONLINE

#### MINIMUM ENTRANCE REQUIREMENTS:

- **Minimum age.** Students must be at least 18 years of age.
- **Licensing.** An apprentice license is NOT required to attend Plumbing Tier 1, Gas Tier 1, LP Tier 1, or LP Tier 2 courses.
- **Licensing.** An apprentice license is required for all other courses. E.G., an apprentice plumbing license is required for Plumbing Tiers 2, 3, 4, and 5. You must also be employed under a licensed master plumber, master gasfitter, or licensed LP Installer, according to the course you are attending. E.G., if you are attending plumbing tier 2, you must be working under a Master plumber who owns a licensed business operating as a plumbing company.
- **Technology Requirements.** You are required to have the following equipment to attend any course: High Speed Internet, PC or Mac, Headset with microphone, & Webcam.

**No registrations will be accepted after the 4<sup>th</sup> class.** Students who register late will have the ability to make-up the classes they have missed via the four make-up classes offered every semester. There is no extra charge for attending these make-up classes in the same semester. However, if you must make-up hours outside of the same semester, the cost is \$13 per hour.

**The following applies to ALL courses, except for the “refresher” course.**

- Each course/program is a total of **110 Clock Hours**.
- **These 110 Clock Hours are provided in two unique 55-hour parts: Part 1 in the Spring Semester, and Part 2 in the Fall Semester. The curriculums are different between the Spring and Fall.**
- The tuitions listed for each course/program covers 55 clock hours.
- Students must complete **both parts** of a tier to complete the full tier.
- Students must complete all tiers in a subject area (plumbing, gas, LP) in order to qualify to take their state licensing exam. E.G. In order to qualify for the Journeyman plumbing exam, you must complete Plumbing Tiers 1-5 for a total of 550 hours.
- The course duration for each semester is one night a week, for 12 weeks.
- All courses take place from 6:00pm – 10:30pm EST.

**IF YOU ARE ATTENDING OUR ONLINE COURSES, YOU AGREE TO THE FOLLOWING POLICIES AND TERMS:**

1. YOU MUST HAVE EQUIPMENT THAT OPERATES PROPERLY THROUGHOUT THE COURSE. THIS INCLUDES YOUR COMPUTER, WEBCAM, HEADSET, AND INTERNET. **EARBUDS FOR HEADPHONES/HEADSET ARE NOT ACCEPTABLE.** WE HIGHLY RECOMMEND THE FOLLOWING EQUIPMENT:

- A. **HEADSET** – “KINGSTON HYPERX CLOUD STINGER”, OR “SENNHEISER GAME ONE”
- B. **WEBCAM** – “LOGITECH C920”
- C. **COMPUTER** – “DELL INSPIRON”, “MACBOOK”
- D. **INTERNET** –MUST HAVE SPEEDS OF AT LEAST 50MBPS DOWNLOAD, 10 MBPS UPLOAD

2. YOU MUST ALWAYS BE VISIBLE DURING CLASS, AND CANNOT FREEZE OR PAUSE YOUR WEBCAM, UNLESS ON BREAK.

3. CLASSES ARE RECORDED FOR RECORD KEEPING PURPOSES, AND TO VERIFY YOUR ATTENDANCE IN THE ONLINE CLASS.

4. YOU MUST ALWAYS “SIGN-IN” AND “SIGN-OUT” IN THE ONLINE CHAT AT THE BEGINNING AND END OF THE CLASS, RESPECTIVELY.

5. IF YOU DISCONNECT FOR A FEW MINUTES, YOU CAN RE-JOIN THE CLASS WITHOUT LOSING TIME. IF YOU ARE DISCONNECTED FOR MORE THAN 15 MINUTES, YOU WILL BEGIN TO LOSE TIME IN YOUR CLASS.

6. BREAKS ARE ONCE EVERY CLASS, AND ARE 30 MINUTES IN LENGTH.

7. YOU MUST COMPLETE ALL ONLINE TESTS REQUIRED IN YOUR TIER.

**PLUMBING TIER 1 – Course ID: PT01**  
**Tuition - \$695 per semester**  
 (Not including price of Workbook and/or Codebook)

LESSON 1: Introduction to Plumbing	6 hours
LESSON 2: Safety & Installation Practices	10 hours
LESSON 3: Education and Experience Requirements 248 CMR 3.00 and 11.00	6 hours
LESSON 4: Materials, Tools, and Joining Methods used in Plumbing	18 hours
LESSON 5: Valves and Devices Used in Plumbing	9 hours
LESSON 6: Residential Blueprint Reading	15 hours
LESSON 7: Math	40 hours
LESSON 8: Definitions	6 hours
<b>TOTAL</b>	<b>110 hours</b>

**PLUMBING TIER 2 – Course ID: PT02**  
**Tuition - \$695 per semester**  
 (Not including price of Workbook and/or Codebook)

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LESSON 1: Drainage	3 hours
LESSON 2: Building Sanitary Waste and Venting System	6 hours
LESSON 3: Allowable Materials and Approval Procedures	3 hours
LESSON 4: Plumbing Traps	6 hours
LESSON 5: Cleanouts	3 hours
LESSON 6: Plumbing Code	6 hours
LESSON 7: Potable Water Supply	12 hours
LESSON 8: Math	32 hours
LESSON 9: Gas Fitting	24 hours
LESSON 10: Blueprint Reading	9 hours
LESSON 11: Definitions	6 hours
<b>TOTAL</b>	<b>110 hours</b>

**PLUMBING TIER 3 – Course ID: PT03**  
**Tuition - \$695 per semester**  
 (Not including price of Workbook and/or Codebook)

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LESSON 1: Venting	21 hours
LESSON 2: Drainage	18 hours
LESSON 3: Water Supply	18 hours
LESSON 4: Testing & Safety	6 hours
LESSON 5: Storm Drains	9 hours
LESSON 6: Gas Code	16 hours
LESSON 7: Fixture Installation	12 hours
LESSON 8: Definitions	10 hours
<b>TOTAL</b>	<b>110 hours</b>

**PLUMBING TIER 4 – Course ID: PT04**  
**Tuition - \$695 per semester**  
 (Not including price of Workbook and/or Codebook)

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LESSON 1: Gas Code	27 hours
LESSON 2: General Provisions	6 hours
LESSON 3: Scope and Jurisdiction	3 hours
LESSON 4: Drainage Piping	24 hours
LESSON 5: Water Supply	12 hours
LESSON 6: Fixture Installations	12 hours
LESSON 7: Hospital Fixtures	3 hours
LESSON 8: Manufactured Homes & Construction Trailers	3 hours
LESSON 9: Public and Semi-Public Swimming Pools	3 hours
LESSON 10: Vacuum Drainage Systems	3 hours
LESSON 11: Basic Principles	6 hours
LESSON 12: Definitions	8 hours
<b>TOTAL</b>	<b>110 hours</b>

**PLUMBING TIER 5 – Course ID: PT05**  
**Tuition - \$900 per semester**  
 (Not including price of Workbook and/or Codebook)

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LESSONS 1 - 4: Plumbing & Gas Code Review	95 hours
LESSON 5: Business Related Costs	15 hours
<b>TOTAL</b>	<b>110 hours</b>

**GAS TIER 1 – Course ID: GT01**  
**Tuition - \$695 per semester**  
 (Not including price of Workbook and/or Codebook)

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LESSON 1: Introduction to Gas Fitting	5 hours
LESSON 2: Safety and Installation Practices	10 hours
LESSON 3: General Provisions for Gas Work in Massachusetts 248 CMR 3.00	5 hours
LESSON 4: Education and Experience Requirements for Licensure 248 CMR 11.00	5 hours
LESSON 5: Massachusetts Modifications to Sections of NFPA 54 248 CMR 4.00 & 5.00	20 hours
LESSON 6: Gas Piping System Design, Material and Components	35 hours
LESSON 7: Gas Piping Installation	30 hours
<b>TOTAL</b>	<b>110 hours</b>

**GAS TIER 2 – Course ID: GT02**  
**Tuition - \$695 per semester**  
 (Not including price of Workbook and/or Codebook)

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LESSON 1: Testing and Inspection	10 hours
LESSON 2: Equipment Installation	20 hours
LESSON 3: Installation of Specific Equipment	10 hours
LESSON 4: Venting of Equipment	50 hours
LESSON 5: Gas Utilization in Large Equipment	20 hours
<b>TOTAL</b>	<b>110 hours</b>

**GAS TIER 3 – Course ID: GT03**  
**Tuition - \$695 per semester**  
 (Not including price of Workbook and/or Codebook)

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LESSON 1: NFPA 58 Storage and Handling of Liquefied Petroleum Gases	10 hours
LESSON 2: Basic Principles of a Propane Gas System	10 hours
LESSON 3-5: Gas Code Review for Exam	75 hours
LESSON 6: Business Related Costs	15 hours
<b>TOTAL</b>	<b>110 hours</b>

**LP Tier 1 – Course ID: LP01**  
**Tuition - \$975 per semester**  
 (Not including price of Workbook and/or Codebook)

LESSON 1: Basic Principles of Propane	21 hours
LESSON 2: Safety and Installation Practices (OSHA)	10 hours
LESSON 3: Education & Experience Requirements 248 CMR 3.00 and 11.00	3 hours
LESSON 4: NFPA 58-2011 Liquefied Petroleum Gas Code	25 hours
LESSON 5: 248 CMR 8.00 Amendments to NFPA 58-2011	1 hour
LESSON 6: Designing a Propane Distribution System	16 hours
LESSON 7: Installing Propane Vapor Distribution Systems	32 hours
LESSON 8: Delivery basics	2 hours
<b>TOTAL</b>	<b>110 hours</b>

**LP Tier 2 – Course ID: LP02**  
**Tuition - \$975 per semester**  
**(Not including price of Workbook and/or Codebook)**

LESSON 1: NFPA 54-2012 National Fuel Gas Code	15 hours
LESSON 2: Massachusetts Modifications to Sections of NFPA 54-2012	20 hours
LESSON 3: General Provisions for Gas Work in Massachusetts 248 CMR 3.00	5 hours
LESSON 4: Education and Experience Requirements for Licensure	2 hours
LESSON 5: Propane Appliance Installations	15 hours
LESSON 6: Basic Appliance Troubleshooting	10 hours
LESSON 7: Large Gas Utilization Equipment	10 hours
LESSON 8: Liquid Piping and Vaporizers	12 hours
LESSON 9: Code Review for Exam	21 hours
<b>TOTAL</b>	<b>110 hours</b>

**Refresher Course**  
**Tuition - \$7 per Hour**  
**(Not including price of Workbook and/or Codebook)**

This course is for students who have completed **ALL clock hours** and want to refresh their education in preparation for the state exam. You may attend any of the tier courses offered during a semester, according to your educational needs.