

**2021-2022**



**COURSE CATALOG**

# TEACH PART-TIME WITH GCI

EARN ADDITIONAL INCOME EDUCATING AND **GIVING BACK** TO THE FUTURE OF YOUR TRADE  
CONCERNED ABOUT THE COMMITMENT OF TIME? BECOME A **SUBSTITUTE INSTRUCTOR** AND  
GAIN EXPERIENCE AND A BETTER UNDERSTANDING OF THE POSITION

**NO TEACHING EXPERIENCE NECESSARY!** GCI WILL PROVIDE YOU THE RESOURCES:

- SHADOW CURRENT GCI INSTRUCTORS
- TRAIN-THE-TRAINER WORKSHOPS
- CURRICULUM & LESSON PLANS

INSTRUCTOR **POSITIONS** AVAILABLE IN:

- ELECTRICAL
- GAS FITTING
- HVAC
- PIPEFITTING
- PLUMBING
- SHEET METAL
- SPRINKLERFITTING

TEN **LOCATIONS\*** ACROSS MA:

- ANDOVER
- CANTON
- FRANKLIN
- HOLYOKE
- MEDFORD
- NORTH ADAMS
- SPRINGFIELD
- TAUNTON
- WESTFIELD
- WOBURN



CONTACT MIKE MALONEY, INSTRUCTOR LIAISON DIRECTOR, FOR MORE  
INFORMATION ABOUT TEACHING OPPORTUNITIES WITH GCI

**[MIKE@GWGCI.ORG](mailto:MIKE@GWGCI.ORG)**

DO YOU OR DOES SOMEONE YOU KNOW HOLD A JOURNEYMAN OR MASTER'S  
LICENSE IN THE COMMONWEALTH OF MASSACHUSETTS? LEARN MORE AND FIND  
OUT HOW YOU CAN EARN \$300 JUST FOR REFERRING AN INSTRUCTOR TO US!

CHECK OUT **[JOBS.GWGCI.ORG](https://jobs.gwgci.org)** FOR MORE INFORMATION AND RESOURCES.

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THE MISSION OF THE GOULD CONSTRUCTION INSTITUTE (GCI) IS TO PROVIDE HIGH-  
QUALITY TRAINING THAT PREPARES INDIVIDUALS FOR GAINFUL EMPLOYMENT AND  
LONG-TERM OPPORTUNITIES IN THE CONSTRUCTION INDUSTRY.



## A LETTER FROM THE PRESIDENT

To lead off, please let me thank you for your support and understanding as we, GCI, responded to the unexpected challenge of COVID-19 last year. I am very proud of our students, teachers, and staff who handled the demands we faced to protect everyone as we continued to educate our students during the most unusual of circumstances. Although virtual classes may not have been our first choice, there were several positive take-a-ways and it certainly proved to be a learning experience for us all.

Thankfully, things are beginning to return to normal and we are excited to return to in-person classes this fall at each of our school locations. However, GCI must be proactive and be prepared to continue educating our students if and when circumstances change throughout the year related to the health and safety of our students and employees. Should there be a change in scheduling or class information, we will continue to communicate through our email notifications and we encourage you to frequently visit our website, [www.gwgci.org](http://www.gwgci.org) and follow our social media for up-to-date accurate information.

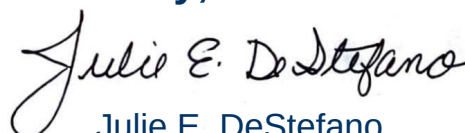
Our priority is to keep everyone safe and we need your cooperation. Each person's situation is different, and we all need to respect each other's concerns. We will follow the CDC's requirements as well as any necessary safety procedures at each of the school locations where we hold our classes.

### **Below is a highlight of what you can expect this year:**

- Monday/ Wednesday classes are starting on September 13 and Tuesday/Thursday classes are starting on September 14 and remain 3-hour classes per week during the evening.
- Classes will remain at 159 hours except Springfield and Westfield which will remain at 168. The increase in hours is built with nine make up hours included.
- Student and company orientations will be scheduled in advance of the start of school to review school policies, procedures and expectations for the 2021-2022 school year. *Please make every effort to attend as these orientations will provide you with the important information you need to be prepared for start of school.*
- Student Graduation Celebration- students completing their hours of education are invited to a celebration event in late May early June. This is a great opportunity for students to be recognized for their accomplishment as well as enjoy a fun filled event with your fellow graduating classmates. More information will be coming.

Again, thank you for your support and we look forward to another successful school year!

Sincerely,



Julie E. DeStefano  
President  
Gould Construction Institute



**GOULD CONSTRUCTION INSTITUTE IS THE EDUCATION AND TRAINING AFFILIATE FOR THE MASSACHUSETTS CHAPTER OF ASSOCIATED BUILDERS AND CONTRACTORS (ABC MA).**

### **WHAT IS AN "ABC MEMBER RATE"?**

This rate applies to companies that are members of the Massachusetts Chapter of Associated Builders and Contractors.

### **WHAT IS ABC MA?**

ABC MA is the largest construction trade association in the Commonwealth, representing over 470 local general contractor, subcontractor, supplier, and associate companies. These companies employ more than 20,000 workers throughout Massachusetts.

### **WHO CAN BE A MEMBER OF ABC MA?**

ABC MA members are Merit Shop Contractors that realize their employees are their most valuable resource. Employees of ABC MA member companies can take advantage of member benefits and discounts.

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**ABC Member Companies and its employees have access to all craft and management training, as well as the Merit Apprenticeship Program. In addition, member companies can receive discounts and save from our numerous vendor partnerships.**

**More information on ABC Membership can be found at [abcma.org](http://abcma.org).**

### **MEMBERSHIP CONTACT INFORMATION**

**Venus Williams  
Membership Director  
ABC Massachusetts**

**100 Unicorn Park Drive, Suite 1  
Woburn, MA 01801  
Phone: (781) 273-0123 x1102  
Email: [venus@abcma.org](mailto:venus@abcma.org)**

# TABLE OF CONTENTS



<i>Tuition Breakdown</i>	<b>3</b>
<i>CONTREN Learning Series</i>	<b>6</b>
<i>Course Offerings</i>	<b>7</b>
<i>Always-Virtual</i>	<b>7</b>
<i>Online Courses</i>	<b>8</b>
<i>Andover</i>	<b>9</b>
<i>Canton</i>	<b>11</b>
<i>Franklin</i>	<b>13</b>
<i>Holyoke</i>	<b>14</b>
<i>Medford</i>	<b>15</b>
<i>North Adams</i>	<b>16</b>
<i>Springfield</i>	<b>17</b>
<i>Taunton</i>	<b>19</b>
<i>Westfield</i>	<b>21</b>
<i>Program Requirements</i>	<b>22</b>
<i>Correspondence Courses</i>	<b>37</b>
<i>Locations</i>	<b>38</b>
<i>GCI Board &amp; Staff</i>	<b>40</b>
<i>Year-At-A-Glance</i>	<b>41</b>

## 2021/2022 Tuition Breakdown

### Trade: Carpentry

Location	ABC Member Tuition	Not Yet a Member Tuition		Book	Hands-On Fee		ABC Member Total	Not Yet a Member Total		Program Hours
Franklin Level 2	\$1,399.00	\$1,719.00		\$175.00	\$225.00		\$1,799.00	\$2,119.00		159

### Trade: Electrical

Location	ABC Member Tuition	Not Yet a Member Tuition		Book	Hands-On Fee		ABC Member Total	Not Yet a Member Total		Program Hours
Canton Level 1 - 4	\$1,399.00	\$1,719.00		\$175.00	N/A		\$1,574.00	\$1,894.00		159
Medford Level 1 - 4	\$1,399.00	\$1,719.00		\$175.00	N/A		\$1,574.00	\$1,894.00		159
Springfield Level 1 - 4	N/A	\$1,519.00		\$175.00	N/A		N/A	\$1,694.00		168
Westfield Level 2	N/A	\$1,519.00		\$175.00	N/A		N/A	\$1,694.00		168

### Trade: Electrical Masters

Location	ABC Member Tuition	Not Yet a Member Tuition		Book (ordered/charged separately)	Hands-On Fee		ABC Member Total	Not Yet a Member Total		Program Hours
Springfield	N/A	\$1,569.00		\$265.00	N/A		N/A	\$1,569.00		168

### Trade: HVAC

Location	ABC Member Tuition	Not Yet a Member Tuition		Book	Hands-On Fee		ABC Member Total	Not Yet a Member Total		Program Hours
Virtual Contractor	\$1,499.00	\$1,779.00		\$175.00	N/A		\$1,674.00	\$1,954.00		108
Andover Level 2	\$1,399.00	\$1,719.00		\$175.00	\$225.00		\$1,799.00	\$2,119.00		159
STCC Level 2	N/A	\$1,519		\$175.00	N/A		N/A	\$1,694.00		168

### Trade: Gas Fitting

Location	ABC Member Tuition	Not Yet a Member Tuition		Book	Hands-On Fee		ABC Member Total	Not Yet a Member Total		Program Hours
Holyoke Tier I	N/A	\$1,019.00		\$175.00	N/A		N/A	\$1,194.00		120
North Adams Tier I	N/A	\$819.00		\$175.00	N/A		N/A	\$994.00		120

### Trade: Pipefitting

Location	ABC Member Tuition	Not Yet a Member Tuition		Book	Hands-On Fee		ABC Member Total	Not Yet a Member Total		Program Hours
Andover Level 1	\$1,399.00	\$1,719.00		\$175.00	N/A		\$1,574.00	\$1,894.00		159
Canton Level 1	\$1,399.00	\$1,719.00		\$175.00	N/A		\$1,574.00	\$1,894.00		159
Taunton Level 1, 2	\$1,399.00	\$1,719.00		\$175.00	N/A		\$1,574.00	\$1,894.00		159

### Trade: Plumbing

Location	ABC Member Tuition	Not Yet a Member Tuition		Book	Hands-On Fee		ABC Member Total	Not Yet a Member Total		Program Hours
Holyoke Tier II, III, IV, IV	N/A	\$1,019.00		\$175.00	N/A		N/A	\$1,194.00		120
North Adams Tier I, III	N/A	\$819.00		\$175.00	N/A		N/A	\$994.00		120
Springfield Tier I, II	N/A	\$1,019.00		\$175.00	N/A		N/A	\$1,194.00		120

### Trade: Sheet Metal

Location	ABC Member Tuition	Not Yet a Member Tuition		Book	Hands-On Fee		ABC Member Total	Not Yet a Member Total		Program Hours
Andover Level 1	\$1,399.00	\$1,719.00		\$175.00	N/A		\$1,574.00	\$1,894.00		159
Andover Level 2 – 5	\$1,399.00	\$1,719.00		\$175.00	\$225.00		\$1,799.00	\$2,119.00		159
Canton Level 4	\$1,399.00	\$1,719.00		\$175.00	\$225.00		\$1,799.00	\$2,119.00		159
Franklin Level 1	\$1,399.00	\$1,719.00		\$175.00	N/A		\$1,574.00	\$1,894.00		159
Franklin Level 2, 3, 4, 5	\$1,399.00	\$1,719.00		\$175.00	\$225.00		\$1,799.00	\$2,119.00		159
North Adams Level 3	N/A	\$1,069.00		\$175.00	\$225.00		N/A	\$1,469.00		159
Taunton Level 1	\$1,399.00	\$1,719.00		\$175.00	N/A		\$1,574.00	\$1,894.00		159
Taunton Level 2, 3, 4	\$1,399.00	\$1,719.00		\$175.00	\$225.00		\$1,799.00	\$2,119.00		159

### Trade: Sprinkler Fitting

Location	ABC Member Tuition	Not Yet a Member Tuition		Book	Hands-On Fee		ABC Member Total	Not Yet a Member Total		Program Hours
Andover Level 1,3	\$1,399.00	\$1,719.00		\$175.00	N/A		\$1,574.00	\$1,894.00		159
Canton Level 1,3	\$1,399.00	\$1,719.00		\$175.00	N/A		\$1,574.00	\$1,894.00		159
Taunton Level 3	\$1,399.00	\$1,719.00		\$175.00	N/A		\$1,574.00	\$1,894.00		159
Springfield Level 1	N/A	\$1,399.00		\$175.00	N/A		N/A	\$1,694.00		168

### Trade: Correspondence Programs

Location	ABC Member Tuition	Not Yet a Member Tuition		Book		ABC Member Total	Not Yet a Member Total		Program Hours
ASME	\$549.00	\$749.00		N/A		\$549.00	\$749.00		350
Correspondence	\$710.00	\$1,028.00		\$175.00		\$885.00	\$1,203.00		150
CCL1	\$710.00	\$1,028.00		\$175.00		\$885.00	\$1,203.00		150
Special Level 4	\$710.00	\$1,028.00		\$230.00		\$940.00	\$1,258.00		150
Sheet Metal Restricted	\$1,250.00	\$1,500.00		N/A		\$1,250.00	\$1,500.00		450
Sheet Metal Unrestricted	\$1,500.00	\$2,000.00		N/A		\$1,500.00	\$2,000.00		750



## GCI GOLD STANDARD OF EDUCATION & INSTRUCTION

GCI, the education and training affiliate of Associated Builders and Contractors Massachusetts Chapter, is proud to offer CONTREN craft training; standardized training programs for the construction and maintenance industry. For more than two decades, CONTREN has been a leader in construction training.

CONTREN Provides:

- Standardized Training
  - Proven Performance in Craft Training
- 

**LICENSED:** Fully licensed by the Division of Occupational Licensure / Office of Private Occupational Education.

**APPROVALS:** The Gould Construction Institute is approved by the following:

- The Department of Labor, Office of Apprenticeship
- Division of Occupational Licensure
- Office of Public Safety and Inspections
- Board of State Examiners of Electricians
- Board of State Examiners of Plumbers and Gas Fitters
- Board of Examiners of Sheet Metal Workers
- The Bureau of Pipefitters, Refrigeration Technicians, and Sprinklerfitters

**INSTRUCTION:** Provided by State approved trade instructors and industry professionals.

**REGISTERED APPRENTICES:** Companies and employees may participate in state approved apprenticeship programs and utilize GCI courses to fulfill related instruction requirements. Firms seeking to train apprentices in courses not listed in this catalog may contact GCI. In the event a specific trade program is not offered in your area, the staff can assist in the development of a state approved in-house training program. Standards of apprenticeship approved by the Department of Labor & Standards currently include the following trades:

- |                              |                   |                    |
|------------------------------|-------------------|--------------------|
| • Bricklayer/Cement Mason    | • Heavy Equipment | • Pipefitting      |
| • Carpentry                  | • HVAC            | • Plumbing         |
| • Concrete Finishing         | • Insulation      | • Process Piping   |
| • Construction Craft Laborer | • Ironworking     | • Roofing          |
| • Electrical                 | • Masonry         | • Sheet Metal      |
| • Elevator                   | • Painting        | • Sprinklerfitting |
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**GCI has the ability to coordinate custom classes. We can arrange training at your facility or locations throughout Massachusetts. If a sufficient number of companies or individuals contact GCI with interest in any particular courses, classes and programs will be added to the calendar.**

## ALWAYS-VIRTUAL TRAINING COURSES

### MA HOT WORK SAFETY CERTIFICATION - ONLINE **Price: \$59.00**

Goals of Training – As a result of taking this class, participants will be able to:

- Understand the principles of Hot Work.
- Explain the types of activities that are classified as Hot Work.
- Explain how to keep a Hot Work site safe.

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### INTRO TO CONSTRUCTION - ONLINE **Price: \$149.00**

This 6 lesson construction training program teaches a range of topics to prepare workers for different fields in the construction industry. Beginning with trades safety this program covers:

- Liner and Distance Measurement
- Fractions, Percentages, Proportions, and Angles
- Common Hand Tools
- Power Cutting Tools

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### BLUEPRINT READING - ONLINE **Price: \$229.00**

The Blueprint Reading programs teach learners the basics behind how to read blueprints. Key concepts taught in this 14 lesson program include:

- |                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| • Introduction to Print Reading         | • Piping: Drawings, Materials & Parts   |
| • Print-Reading Symbols & Abbreviations | • Welding Symbols                       |
| • Dimensioning & Tolerancing            | • Sheet Metal Basics                    |
| • Print Reading Applications            | • Sketching                             |
| • Building Drawings                     | • Elements of Print Reading             |
| • Electronic Drawings                   | • Reading Shop Prints                   |
| • Hydraulic & Pneumatic Drawings        | • Reading Electrical Schematic Diagrams |
|                                         | • Electrical Blueprint Reading          |

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### BASIC MATH - ONLINE **Price: \$149.00**

This math program covers the principles of business and industrial math, from basic operations like addition and multiplication through formulas and algebra. Upon finishing the 6 lessons in the program students will understand key concepts including fractions, proportions and the metric system.

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## ALWAYS-VIRTUAL TRAINING COURSES

### **BUSINESS LITERACY - ONLINE** Price: **\$249.00**

The Business Literacy program has 18 lessons and covers the core concepts behind business communication and technical writing while improving the overall writing quality of the student. Lessons include:

- Using Words Well
- Writing Effective Communications
- Organizing, Researching & Illustrating Your Material
- Writing the Report
- Proposals & Special Projects
- The Parts of Speech
- Word Usage
- Sentence Skills
- The Writing Process, Parts 1 & 2
- Writing Business Communications
- Designing Business Communications
- Writing Effectively
- Researching & Documenting
- Writing Proposals

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### **CAREER READINESS BOOTCAMP - ONLINE** Price: **\$179.00**

Career Readiness Bootcamp consists of 10 lessons and is focused on helping you sharpen nine soft skills employers value. This program is designed to keep you moving forward with a fun and engaging curriculum.

Key skills covered:

- Integrity
- Professionalism
- Respect
- Communication
- Teamwork
- Planning & Organizing
- Decision Making & Problem-Solving
- Customer Focus
- Working with Tools & Technology

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## FALL 2021 - ONLINE COURSE

### **REFRIGERATION CONTRACTOR - ONLINE**

**This course consists of 108 classroom hours**

More course information, curriculum and program requirements can be found on Page 28.

September 13, 2020 - March 2021 - 5:30PM - 8:30PM

Mondays & Wednesdays

ABC Member: \$1,674.00 / Not Yet A Member: \$1,954.00

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## ANDOVER, MA - GREATER LAWRENCE TECHNICAL SCHOOL

### HVAC 2 (HANDS-ON)

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Pages 27 & 28.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays

ABC Member: \$1,799.00 / Not Yet A Member: \$2,119.00

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### PIPEFITTING 1

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Page 29.

September 14, 2021 - May 2022 - 5:30 PM - 8:30 PM

Tuesdays & Thursdays

ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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### SHEET METAL 1

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Page 33.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays OR Tuesdays & Thursdays

ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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### SHEET METAL 2 (HANDS-ON)

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Page 33.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays OR Tuesdays & Thursdays

ABC Member: \$1,799.00 / Not Yet A Member: \$2,119.00

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### SHEET METAL 3 (HANDS-ON)

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Pages 33 & 34.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays OR Tuesdays & Thursdays

ABC Member: \$1,799.00 / Not Yet A Member: \$2,119.00

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## ANDOVER, MA - GREATER LAWRENCE TECHNICAL SCHOOL

### **SHEET METAL 4 (HANDS-ON)**

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Pages 33 & 34.

September 14, 2021 - May 2022 - 5:30 PM - 8:30 PM

Tuesdays & Thursdays

ABC Member: \$1,799.00 / Not Yet A Member: \$2,119.00

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### **SHEET METAL 5 (HANDS-ON)**

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Pages 33 & 34.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays

ABC Member: \$1,799.00 / Not Yet A Member: \$2,119.00

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### **SPRINKLERFITTING 1**

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Page 35.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays

ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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### **SPRINKLERFITTING 3**

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Page 35 & 36.

September 14, 2021 - May 2022 - 5:30 PM - 8:30 PM

Tuesdays & Thursdays

ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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## CANTON, MA - MASSASOIT COMMUNITY COLLEGE

### ELECTRICAL 1

**This course consists of 159 classroom hours**

It is required that all students obtain a copy of the National Electrical Code, 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00) for classes.

More course information, curriculum and program requirements can be found on Page 23.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays

ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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### ELECTRICAL 2

**This course consists of 159 classroom hours**

It is required that all students obtain a copy of the National Electrical Code, 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00) for classes.

More course information, curriculum and program requirements can be found on Pages 23 & 24.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays

ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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### ELECTRICAL 3

**This course consists of 159 classroom hours**

It is required that all students obtain a copy of the National Electrical Code, 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00) for classes.

More course information, curriculum and program requirements can be found on Pages 23 & 24.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays

ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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### ELECTRICAL 4

**This course consists of 159 classroom hours**

It is required that all students obtain a copy of the National Electrical Code, 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00) for classes.

More course information, curriculum and program requirements can be found on Pages 23 & 24.

September 13, 2021 - May 2022 - 5:30PM - 8:30PM

Mondays & Wednesdays

ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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## CANTON, MA - MASSASOIT COMMUNITY COLLEGE

### PIPEFITTING 1

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Pages 32 & 33.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays

ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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### SPRINKLERFITTING 1

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Page 35.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays

ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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### SPRINKLERFITTING 3

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Page 35 & 36.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays

ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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### SHEET METAL 4

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Page 33 & 34.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays

ABC Member: \$1,799.00 / Not Yet A Member: \$2,119.00

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## FRANKLIN, MA - TRI-COUNTY REGIONAL VOCATIONAL TECHNICAL SCHOOL

### **CARPENTRY 2 (HANDS-ON)**

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Page 22.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays

ABC Member: \$1,799.00 / Not Yet A Member: \$2,119.00

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### **SHEET METAL 1**

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Pages 33.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays

ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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### **SHEET METAL 2 (HANDS-ON)**

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Pages 33.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays

ABC Member: \$1,799.00 / Not Yet A Member: \$2,119.00

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### **SHEET METAL 3 (HANDS-ON)**

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Pages 33 & 34.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays

ABC Member: \$1,799.00 / Not Yet A Member: \$2,119.00

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### **SHEET METAL 4 (HANDS-ON)**

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Pages 33 & 34.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays

ABC Member: \$1,799.00 / Not Yet A Member: \$2,119.00

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### **SHEET METAL 5 (HANDS-ON)**

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Pages 33 & 34.

September 13, 2021 - May 2022 - 5:30 PM - 8:30 PM

Mondays & Wednesdays

ABC Member: \$1,799.00 / Not Yet A Member: \$2,119.00

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## HOLYOKE, MA - HOLYOKE COMMUNITY COLLEGE

### PLUMBING TIER II

**This course consists of 120 classroom hours**

More course information, curriculum and program requirements can be found on Page 31.

September 14, 2021 - February 2022 - 5:00 PM - 8:00 PM

Tuesdays & Thursdays

**Tuition Price: \$1,194.00**

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### PLUMBING TIER III

**This course consists of 120 classroom hours**

More course information, curriculum and program requirements can be found on Page 31 & 32.

September 14, 2021 - February 2022 - 5:00 PM - 8:00 PM

Tuesdays & Thursdays

**Tuition Price: \$1,194.00**

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### PLUMBING TIER IV

**This course consists of 120 classroom hours**

More course information, curriculum and program requirements can be found on Pages 31 & 32.

September 13, 2021 - February 2022 - 5:00 PM - 8:00 PM

Mondays & Wednesdays

**Tuition Price: \$1,194.00**

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### PLUMBING TIER V

**This course consists of 120 classroom hours**

More course information, curriculum and program requirements can be found on Pages 31 & 32.

September 14, 2021 - February 2022 - 5:00 PM - 8:00 PM

Tuesdays & Thursdays

**Tuition Price: \$1,194.00**

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### GAS FITTING TIER I

**This course consists of 120 classroom hours**

More course information, curriculum and program requirements can be found on Page 26.

September 14, 2021 - February 2022 - 5:00 PM - 8:00 PM

Tuesdays & Thursdays

**Tuition Price: \$1,194.00**

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## MEDFORD, MA - MEDFORD VOCATIONAL SCHOOL

### ELECTRICAL 1

**This course consists of 159 classroom hours**

It is required that all students obtain a copy of the National Electrical Code, 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00) for classes.

More course information, curriculum and program requirements can be found on Page 23.

September 13, 2021 - May 2022 - 6:00 PM - 9:00 PM  
Mondays & Wednesdays OR Tuesdays & Thursdays  
ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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### ELECTRICAL 2

**This course consists of 159 classroom hours**

It is required that all students obtain a copy of the National Electrical Code, 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00) for classes.

More course information, curriculum and program requirements can be found on Pages 23 & 24.

September 13, 2021 - May 2022 - 6:00 PM - 9:00 PM  
Mondays & Wednesdays OR Tuesdays & Thursdays  
ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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### ELECTRICAL 3

**This course consists of 159 classroom hours**

It is required that all students obtain a copy of the National Electrical Code, 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00) for classes.

More course information, curriculum and program requirements can be found on Pages 23 & 24.

September 13, 2021 - May 2022 - 6:00 PM - 9:00 PM  
Mondays & Wednesdays OR Tuesdays & Thursdays  
ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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### ELECTRICAL 4

**This course consists of 159 classroom hours**

It is required that all students obtain a copy of the National Electrical Code, 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00) for classes.

More course information, curriculum and program requirements can be found on Pages 23 & 24.

September 14, 2021 - May 2022 - 6:00 PM - 9:00 PM  
Tuesdays & Thursdays  
ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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## **NORTH ADAMS, MA - MCCANN TECHNICAL SCHOOL**

### **PLUMBING TIER I**

**This course consists of 120 classroom hours**

More course information, curriculum and program requirements can be found on Pages 31.

September 13, 2021 - March 2022 - 6:00 PM - 9:00 PM

Mondays & Wednesdays

**Tuition Price: \$994.00**

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### **PLUMBING TIER III**

**This course consists of 120 classroom hours**

More course information, curriculum and program requirements can be found on Pages 31 & 32.

September 13, 2021 - March 2022 - 6:00 PM - 9:00 PM

Mondays & Wednesdays

**Tuition Price: \$994.00**

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### **SHEET METAL 3 (HANDS-ON)**

**This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Page 33 & 34.

September 13, 2021 - May 2022 - 6:00 PM - 9:00 PM

Mondays & Wednesdays

**Tuition Price: \$1,469.00**

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## SPRINGFIELD, MA - SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

### ELECTRICAL 1

**This course consists of 168 classroom hours**

It is required that all students obtain a copy of the National Electrical Code, 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00) for classes.

More course information, curriculum and program requirements can be found on Page 23.

September 14, 2021 - May 2022 - 5:00 PM - 8:00 PM

Tuesdays & Thursdays

**Tuition Price: \$1,694.00**

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### ELECTRICAL 2

**This course consists of 168 classroom hours**

It is required that all students obtain a copy of the National Electrical Code, 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00) for classes.

More course information, curriculum and program requirements can be found on Pages 23 & 24.

September 14, 2021 - May 2022 - 5:00 PM - 8:00 PM

Tuesdays & Thursdays

**Tuition Price: \$1,694.00**

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### ELECTRICAL 3

**This course consists of 168 classroom hours**

It is required that all students obtain a copy of the National Electrical Code, 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00) for classes.

More course information, curriculum and program requirements can be found on Pages 23 & 24.

September 14, 2021 - May 2022 - 5:00 PM - 8:00 PM

Tuesdays & Thursdays

**Tuition Price: \$1,694.00**

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### ELECTRICAL 4

**This course consists of 168 classroom hours**

It is required that all students obtain a copy of the National Electrical Code, 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00) for classes.

More course information, curriculum and program requirements can be found on Pages 23 & 24

September 14, 2021 - May 2022 - 5:00 PM - 8:00 PM

Tuesdays & Thursdays

**Tuition Price: \$1,694.00**

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## SPRINGFIELD, MA - SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

### MASTER'S ELECTRICAL

**This course consists of 168 classroom hours**

It is required that all students hold an Electrical Journeyman License to attend this class. Book fees are not included in the tuition price. Students are responsible for purchasing books before the first day of the course.

September 13, 2021 - May 2022 - 5:00 PM - 8:00 PM

Mondays & Wednesdays

Tuition Price: \$1,569.00

**Books to purchase for this course can be found on Page 25.**

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### HVAC 2

**This course consists of 168 classroom hours**

More course information, curriculum and program requirements can be found on Page 27.

September 14, 2021 - May 2022 - 5:00 PM - 8:00 PM

Tuesdays & Thursdays

Tuition Price: \$1,694.00

---

### PLUMBING TIER I

**This course consists of 120 classroom hours**

More course information, curriculum and program requirements can be found on Page 31.

September 13, 2021 - April 2022 - 5:00 PM - 8:00 PM

Mondays & Wednesdays

Tuition Price: \$1,194.00

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### PLUMBING TIER II

**This course consists of 120 classroom hours**

More course information, curriculum and program requirements can be found on Page 31.

September 14, 2021 - April 2022 - 5:00 PM - 8:00 PM

Tuesdays & Thursdays

Tuition Price: \$1,194.00

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### SPRINKLERFITTING 1

**This course consists of 168 classroom hours**

More course information, curriculum and program requirements can be found on Page 35.

September 13, 2021 - May 2022 - 5:00 PM - 8:00 PM

Mondays & Wednesdays

Tuition Price: \$1,694.00

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**TAUNTON, MA - BRISTOL-PLYMOUTH REGIONAL TECHNICAL SCHOOL****PIPEFITTING 1****This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Pages 29.

September 14, 2021 - May 2022 - 5:00 PM - 8:00 PM

Tuesdays &amp; Thursdays

ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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**PIPEFITTING 2****This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Pages 29 &amp; 30.

September 14, 2021 - May 2022 - 5:00 PM - 8:00 PM

Tuesdays &amp; Thursdays

ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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**SHEET METAL 1****This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Page 33.

September 14, 2021 - May 2022 - 5:00 PM - 8:00 PM

Tuesdays &amp; Thursdays

ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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**SHEET METAL 2 (HANDS-ON)****This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Page 33.

September 14, 2021 - May 2022 - 5:00 PM - 8:00 PM

Tuesdays &amp; Thursdays

ABC Member: \$1,799.00 / Not Yet A Member: \$2,119.00

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**TAUNTON, MA - BRISTOL-PLYMOUTH REGIONAL TECHNICAL SCHOOL****SHEET METAL 3 (HANDS-ON)****This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Pages 33 &amp; 34.

September 14, 2021 - May 2022 - 5:00 PM - 8:00 PM

Tuesdays &amp; Thursdays

ABC Member: \$1,799.00 / Not Yet A Member: \$2,119.00

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**SHEET METAL 4 (HANDS-ON)****This course consists of 159 classroom hours**

More course information, curriculum and program requirements can be found on Pages 33 &amp; 34.

September 14, 2021 - May 2022 - 5:00 PM - 8:00 PM

Tuesdays &amp; Thursdays

ABC Member: \$1,799.00 / Not Yet A Member: \$2,119.00

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**SPRINKLERFITTING 3****This course consists of 159 classroom hours**It is required that all students obtain a copy of the latest  
NFPA 13 Automatic Sprinkler Systems Handbook for classes.

More course information, curriculum and program requirements can be found on Page 35 &amp; 36.

September 14, 2021 - May 2022 - 5:00 PM - 8:00 PM

Tuesdays &amp; Thursdays

ABC Member: \$1,574.00 / Not Yet A Member: \$1,894.00

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## WESTFIELD, MA - WESTFIELD TECHNICAL ACADEMY

### ELECTRICAL 2

**This course consists of 168 classroom hours**

It is required that all students obtain a copy of the National Electrical Code, 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00) for classes.

More course information, curriculum and program requirements can be found on Pages 23 & 24.

September 14, 2021 - May 2022 - 5:00 PM - 8:00 PM

Tuesdays & Thursdays

Tuition Price: \$1,694.00

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## PROGRAM CURRICULUM & REQUIREMENTS: CARPENTRY

### CARPENTRY 1 \*not offered this year\*

#### Course Curriculum Areas of Study:

- Basic Safety
- Introduction to Construction Math
- Introduction to Hand Tools
- Introduction to Power Tools
- Introduction to Construction Drawings
- Basic Rigging
- Basic Communication Skills
- Basic Employability Skills
- Introduction to Materials Handling
- Orientation to the Trade
- Building Materials, Fasteners, and Adhesives
- Hand and Power Tools
- Introduction to Construction Drawings, Specifications, and Layout
- Floor Systems
- Wall Systems
- Ceiling Joist and Room Framing
- Introduction to Building Envelope Systems
- Basic Stair Layout

### CARPENTRY 2

#### Course Curriculum Areas of Study:

- Commercial Drawings
- Cold-Formed Steel Framing
- Exterior Finishing
- Thermal and Moisture Protection
- Roofing Applications
- Doors and Door Hardware
- Drywall Installation
- Drywall Finishing
- Suspended Ceilings
- Window, Door, Floor, and Ceiling Trim
- Cabinet Installation

### CARPENTRY 3 \*not offered this year\*

#### Course Curriculum Areas of Study:

- Properties of Concrete
- Rigging Equipment
- Rigging Practices
- Trenching and Excavating
- Reinforcing Concrete
- Foundations and Slabs-On-Grade
- Vertical Formwork
- Horizontal Formwork
- Handling and Placing Concrete
- Tilt-Up Wall Systems

### CARPENTRY 4 \*not offered this year\*

#### Course Curriculum Areas of Study:

- Site Layout One: Differential Leveling
- Site Layout Two: Angular and Distance Measurement
- Advanced Roof Systems
- Advanced Wall Systems
- Advanced Stair Systems
- Introduction to Construction Equipment
- Introduction to Oxyfuel Cutting and Arc Welding
- Site Preparation
- Fundamentals of Crew Leadership

## PROGRAM CURRICULUM & REQUIREMENTS: ELECTRICAL

### MASSACHUSETTS ELECTRICAL APPRENTICE

#### Electrical Journeyman License Requirements

- 600 classroom hours from courses relating to Electrical Theory
- 8,000 field hours obtained on the job

#### Master's Electrical License Requirements

- Must hold an Electrical Journeyman License in the state of Massachusetts
- Additional 150 classroom hours
- Additional 2,000 field hours

### BOARD OF STATE EXAMINERS OF ELECTRICIANS

Address: 1000 Washington Street, Suite 710  
Boston, MA 02118

Phone: (617) 727-9931

Fax: (617) 727-9932

Email: [electricians.board@mass.gov](mailto:electricians.board@mass.gov)

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### ELECTRICAL 1

It is required that all students obtain a copy of the National Electrical Code, 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00) for classes.

#### Course Curriculum Areas of Study:

- |                                         |                                                      |
|-----------------------------------------|------------------------------------------------------|
| • Basic Safety                          | • Introduction to Electrical Circuits                |
| • Introduction to Construction Math     | • Electrical Theory                                  |
| • Introduction to Hand Tools            | • Introduction to the National Electrical Code (NEC) |
| • Introduction to Power Tools           | • Device Boxes                                       |
| • Introduction to Construction Drawings | • Hand Bending                                       |
| • Basic Rigging                         | • Raceways and Fittings                              |
| • Basic Communication Skills            | • Conductors and Cables                              |
| • Basic Employability Skills            | • Basic Electrical Construction Drawings             |
| • Introduction to Materials Handling    | • Residential Electrical Services                    |
| • Orientation to the Electrical Trade   | • Electrical Test Equipment.                         |
| • Electrical Safety                     |                                                      |
-

## PROGRAM CURRICULUM & REQUIREMENTS: ELECTRICAL

### ELECTRICAL 2

It is required that all students obtain a copy of the National Electrical Code, 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00) for classes.

#### Course Curriculum Areas of Study:

- Alternating Current
- Motors: Theory and Application
- Electric Lighting
- Conduit Bending
- Pull and Junction Boxes
- Conductor Installations
- Cable Tray
- Conductor Terminations and Splices
- Grounding and Bonding
- Circuit Breakers and Fuses
- Control Systems and Fundamental Concepts

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### ELECTRICAL 3

It is required that all students obtain a copy of the National Electrical Code, 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00) for classes.

#### Course Curriculum Areas of Study:

- Load Calculations – Branch and Feeder Circuits
- Conductor Selection and Calculations
- Practical Applications of Lighting
- Hazardous Locations
- Overcurrent Protection
- Distribution Equipment
- Transformers
- Commercial Electrical Services
- Motor Calculations
- Voice, Data, and Video
- Motor Controls

---

### ELECTRICAL 4

It is required that all students obtain a copy of the National Electrical Code, 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00) for classes.

#### Course Curriculum Areas of Study:

- Load Calculations –Feeders and Services
  - Health Care Facilities
  - Standby and Emergency Systems
  - Basic Electronic Theory
  - Fire Alarm Systems
  - Specialty Transformers
  - Advanced Controls
  - HVAC Controls
  - Heat Tracing and Freeze Protection
  - Motor Operation and Maintenance
  - Medium-Voltage Terminations/Splices
  - Special Locations
  - Fundamentals of Crew Leadership
-

## PROGRAM CURRICULUM & REQUIREMENTS: ELECTRICAL

### MASTER'S ELECTRICAL

The 168 hour Certified Master's Program as per requirements contained in "237 CMR 22.02: Required Electrical Education as a Prerequisite for Master Electrician Examination" will focus the attention of the Eligible Candidate to the current testing edition of the National Electrical Code (NFPA 70-2020) with particular attention also given to the Commonwealth of Massachusetts Electrical Code Amendments (527 CMR 12.00) as contained in the current edition of the National Electrical Code (NFPA 70-2020) and other required documents and information required to sit for the test.

This course is intended to supplement the continuing studies of the serious Eligible Candidate, with emphasis on assisting the Eligible Candidate to pass the desired Commonwealth of Massachusetts, Certificate A (Master) Electrician License Examination. It is required that all students obtain a copy of the National Electrical Code 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00) for classes. It is required that all students hold an Electrical Journeyman License to attend this class. Book fees are not included in the tuition price. Students are responsible for purchasing books before the first day of the course.

#### Prerequisites:

- Massachusetts Electrical Journeyman License

#### Required Course Materials:

- National Electrical Code 2020 Edition, with the Commonwealth of Massachusetts Amendments (527 CMR 12.00)
- NFPA 72, National Fire Alarm Code, 2019 Edition, 1st Printing
- Mike Holt's Illustrated Guide to Electrical Exam Preparation, based on the 2020 NEC
  - ISBN: 978-0-9863534-9-9
- Mike Holt's Illustrated Guide to Electrical Exam Preparation, based on the 2020 NEC, Answer Key
- Contractor's Guide to Business, Law and Project Management, Basic 12th Edition (NASCLA)
- Code of Federal Regulations - 29 CFR Part 1926 (OSHA) with latest available amendments

#### **MASTER'S ELECTRICAL COURSE MATERIALS PACKAGE - \$ 265.00**

- This package includes all books listed above under "Required Course Materials".
  - Master's Electrical students are not obligated to purchase books through GCI.
-

## PROGRAM CURRICULUM & REQUIREMENTS: GAS FITTING

### MASSACHUSETTS GAS FITTING APPRENTICE

#### Gas Fitting Journeyman License Requirements

- 330 classroom hours
- 5,100 field hours
- Apprentices MUST apply for an apprentice license through the Board of State Examiners of Plumbers & Gas Fitters.

### BOARD OF STATE EXAMINERS OF PLUMBERS & GAS FITTERS

Address: 1000 Washington Street, Suite 710  
Boston, MA 02118-6100  
Phone: (617) 727-3200  
[mass.gov/dps](http://mass.gov/dps) - Engineering Division

---

### GAS FITTING TIER 1

#### Course Curriculum Areas of Study:

- |                                             |                                                                             |
|---------------------------------------------|-----------------------------------------------------------------------------|
| • Basic Safety                              | • Introduction to Gas Fitting                                               |
| • Introduction to Construction Math         | • Safety and Installation Practices                                         |
| • Introduction to Hand Tools                | • General Provisions for Gas Work in Massachusetts<br>248 CMR 3.00          |
| • Introduction to Power Tools               | • Education and Experience Requirements for Licensure<br>248 CMR 11.00      |
| • Introduction to Construction Drawings     | • Massachusetts Modifications to Sections of NFPA 54<br>248 CMR 4.00 & 5.00 |
| • Basic Rigging                             | • Gas Piping System Design, Material and Components                         |
| • Basic Communication Skills                | • Gas Piping Installation                                                   |
| • Basic Employability                       |                                                                             |
| • Skills Introduction to Materials Handling |                                                                             |

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### GAS FITTING TIER 2 \*not offered this year\*

#### Course Curriculum Areas of Study:

- |                                      |                                      |
|--------------------------------------|--------------------------------------|
| • Testing and Inspection             | • Venting of Equipment               |
| • Equipment Installation             | • Gas Utilization in Large Equipment |
| • Installation of Specific Equipment |                                      |

---

### GAS FITTING TIER 3 \*not offered this year\*

#### Course Curriculum Areas of Study:

- |                                                             |                            |
|-------------------------------------------------------------|----------------------------|
| • NFPA 58 Storage and Handling of Liquefied Petroleum Gases | • Gas Code Review for Exam |
| • Basic Principles of a Propane Gas System                  | • Business Related Costs   |
-

## PROGRAM CURRICULUM & REQUIREMENTS: HVAC

### MASSACHUSETTS HVAC APPRENTICE

#### Refrigeration/Air Technician License Requirements

- 100 Refrigeration Theory classroom hours
- 150 Electrical Code classroom hours
- 6,000 field hours
- Apprentices MUST apply for an apprentice license through the Bureau of Pipefitters, Refrigeration Technicians, and Sprinklerfitters AND register as an apprentice through the Division of Apprenticeship Standards.

#### Refrigeration Contractor License Requirements

- 100 Refrigeration Theory classroom hours
- 2,000 field hours

### BUREAU OF PIPEFITTERS, REFRIGERATION TECHNICIANS, AND SPRINKLERFITTERS

Address: 1000 Washington Street, Suite 710

Boston, MA 02118-6100

Phone: (617) 727-3200

[mass.gov/dps](http://mass.gov/dps) - Engineering Division

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### HVAC 1 \*not offered this year\*

#### Course Curriculum Areas of Study:

- |                                             |                                             |
|---------------------------------------------|---------------------------------------------|
| • Basic Safety                              | • Introduction to HVAC                      |
| • Introduction to Construction Math         | • Trade Mathematics                         |
| • Introduction to Hand Tools                | • Basic Electricity                         |
| • Introduction to Power Tools               | • Introduction to Heating                   |
| • Introduction to Construction Drawings     | • Introduction to Cooling                   |
| • Basic Rigging                             | • Introduction to Air Distribution Systems  |
| • Basic Communication Skills                | • Basic Copper and Plastic Piping Practices |
| • Basic Employability                       | • Soldering and Brazing                     |
| • Skills Introduction to Materials Handling | • Basic Carbon Steel Piping Practices       |

---

### HVAC 2

#### Course Curriculum Areas of Study:

- |                                                      |                                        |
|------------------------------------------------------|----------------------------------------|
| • Alternating Current                                | • Chimneys, Vents, and Flues           |
| • Compressors                                        | • Sheet Metal Duct Systems             |
| • Refrigerants and Oils                              | • Fiberglass and Flexible Duct Systems |
| • Leak Detection, Evacuation, Recovery, and Charging | • Commercial Airside Systems           |
| • Metering Devices                                   | • Air Quality Equipment                |
| • Heat Pumps                                         | • Introduction to Hydronic Systems     |
| • Basic Maintenance                                  |                                        |
-

## PROGRAM CURRICULUM & REQUIREMENTS: HVAC

### HVAC 3 \*not offered this year\*

#### Course Curriculum Areas of Study:

- Fasteners, Hardware, and Wiring Terminations
  - Control Circuit and Motor Troubleshooting
  - Troubleshooting Cooling
  - Troubleshooting Heat Pumps
  - Troubleshooting Gas Heating
  - Troubleshooting Oil Heating
  - Troubleshooting Accessories
  - Zoning, Ductless, and Variable Refrigerant Flow Systems
  - Commercial Hydronic Systems
  - Steam Systems
  - Retail Refrigeration System
  - Customer Relations
- 

### HVAC 4 \*not offered this year\*

#### Course Curriculum Areas of Study:

- Water Treatment
  - Indoor Air Quality
  - Energy Conservation Equipment
  - Building Management Systems
  - System Air Balancing
  - System Startup and Shutdown
  - Construction Drawings and Specifications
  - Heating and Cooling System Design
  - Commercial/Industrial Refrigeration Systems
  - Alternatives and Specialized Heating and Cooling Systems
  - Fundamentals of Crew Leadership
- 

## REFRIGERATION CONTRACTOR - ONLINE

#### Course Curriculum Areas of Study:

- Refrigeration Theory
  - Evaporators
  - Metering Devices
  - Condensers
  - Compressors
  - Refrigeration Accessories
  - Refrigerants
  - Operation, Pressures & Temperatures
  - AC and Refrigeration Math
  - Multi Temperature Systems
  - Other Refrigeration Systems
  - Motors
  - Purgers and Absorption Systems
  - Definitions from ASHRAE 15 & 34
  - The Mass Refrigeration Code
-



## PROGRAM CURRICULUM & REQUIREMENTS: PIPEFITTING

### MASSACHUSETTS PIPEFITTING APPRENTICE

#### Unrestricted Pipefitting Journeyman License Requirements

- 350 classroom hours (ASME)
- 6,000 field hours obtained on the job
- Apprentices MUST apply for an apprentice license through the Bureau of Pipefitters, Refrigeration Technicians, and Sprinklerfitters AND register as an apprentice through the Division of Apprenticeship Standards.

#### Pipefitter Master's License Requirements

- Additional 100 classroom hours (ASME)
- Additional 2,000 field hours
- The ASME Correspondence Course = 350 hours and is only available for those who have been in the field for 6+ years

### BUREAU OF PIPEFITTERS, REFRIGERATION TECHNICIANS, AND SPRINKLERFITTERS

Address: 1000 Washington Street, Suite 710  
Boston, MA 02118-6100

Phone: (617) 727-3200

[mass.gov/dps](http://mass.gov/dps) - Engineering Division

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### PIPEFITTING 1

#### Course Curriculum Areas of Study:

- |                                         |                                                              |
|-----------------------------------------|--------------------------------------------------------------|
| • Basic Safety                          | • Pipefitting Power Tools                                    |
| • Introduction to Construction Math     | • Oxyfuel Cutting                                            |
| • Introduction to Hand Tools            | • Ladder & Scaffolds                                         |
| • Introduction to Power Tools           | • Motorized Equipment                                        |
| • Introduction to Construction Drawings | • Piping Systems                                             |
| • Basic Rigging                         | • Drawing & Detail Sheets                                    |
| • Basic Communication Skills            | • Identifying & Installing Valves                            |
| • Basic Employability Skills            | • Pipefitting Trade Math                                     |
| • Introduction to Materials Handling    | • Threaded Pipe Fabrication                                  |
| • Orientation to the Trade              | • Socket Weld Pipe Fabrications & Butt Weld Pipe Fabrication |
| • Pipefitting Hand Tools                |                                                              |
-

## PROGRAM CURRICULUM & REQUIREMENTS: PIPEFITTING

### PIPEFITTING 2

#### Course Curriculum Areas of Study:

- Excavations
  - Underground Pipe Installations
  - Rigging Equipment
  - Rigging Practices
  - Standards & Specifications
  - Advanced Trade Math
  - Motorized Equipment II
  - Introduction to Aboveground Pipe Installations
  - Field Routing & Vessel Trim
  - Pipe Hangers & Supports
  - Testing Piping Systems & Equipment
  - Advanced Blueprint Reading
  - Advanced Pipe Fabrication
  - Stress Relieving & Aligning
  - Maintaining Valves
  - Introduction to Supervisory Roles
- 

### PIPEFITTING 3 \*not offered this year\*

#### Course Curriculum Areas of Study:

- Excavations
  - Underground Pipe Installations
  - Rigging Equipment
  - Rigging Practices
  - Standards & Specifications
  - Advanced Trade Math
  - Motorized Equipment II
  - Introduction to Aboveground Pipe Installations
  - Field Routing & Vessel Trim
  - Pipe Hangers & Supports
  - Testing Piping Systems & Equipment
  - Advanced Blueprint Reading
  - Stress Relieving & Aligning
  - Maintaining Valves
  - Introduction to Supervisory Roles
-

## PROGRAM CURRICULUM & REQUIREMENTS: PLUMBING

### MASSACHUSETTS PLUMBING APPRENTICE

#### Plumbing Journeyman License Requirements

- 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: 1000 Washington Street, Suite 710  
Boston, MA 02118-6100  
Phone: (617) 727-3100  
[mass.gov/dpl](http://mass.gov/dpl)

---

### PLUMBING TIER I

#### Course Curriculum Areas of Study:

- |                                         |                                                       |
|-----------------------------------------|-------------------------------------------------------|
| • 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           |                                                       |

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### PLUMBING TIER II

#### Course Curriculum Areas of Study:

- |                                                         |                                  |
|---------------------------------------------------------|----------------------------------|
| • 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            |                                  |

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### 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.

## PROGRAM CURRICULUM & REQUIREMENTS: PLUMBING

### PLUMBING TIER III

#### 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
- 

### PLUMBING TIER IV

#### 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
- 

### PLUMBING TIER V

#### 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
-

## PROGRAM CURRICULUM & REQUIREMENTS: SHEET METAL

### MASSACHUSETTS SHEET METAL APPRENTICE

#### Sheet Metal Journeyman License Requirements\*

- Unrestricted License
  - 750 classroom hours
  - 8,000 field hours
- Restricted License
  - 450 classroom hours
  - 4,800 field hours

**\*All Sheet Metal apprentices MUST apply for an apprentice license through the Board of Examiners of Sheet Metal Workers.**

### BOARD OF EXAMINERS OF SHEET METAL WORKERS

Address: 1000 Washington Street, Suite 710  
Boston, MA 02118

Phone: (617) 727-3022

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### SHEET METAL 1

#### Course Curriculum Areas of Study:

- |                                         |                                                         |
|-----------------------------------------|---------------------------------------------------------|
| • Basic Safety                          | • Basic Employability Skills                            |
| • Introduction to Construction Math     | • Introduction to Materials Handling                    |
| • Introduction to Hand Tools            | • Introduction to the Sheet Metal/HVAC Trades           |
| • Introduction to Power Tools           | • Introduction to M.G.L. c. 112, s. 237-251 and 271 CMR |
| • Introduction to Construction Drawings | • Tools of the Trade and Installation Ductwork          |
| • Basic Rigging                         |                                                         |
| • Basic Communication Skills            |                                                         |

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### SHEET METAL 2

#### Course Curriculum Areas of Study:

- |                                                |                                             |
|------------------------------------------------|---------------------------------------------|
| • Safety Review                                | • Duct Fabrication Standards                |
| • Trade Math 104                               | • Introduction to Layout                    |
| • Shop Production and Organization             | • Fabrication I - Parallel Line Development |
| • Installation of Air Distribution Accessories | • Fabrication II - Radial Line Development  |
| • Air Systems                                  | • Hands-on Shop Fabrication                 |
-

## PROGRAM CURRICULUM & REQUIREMENTS: SHEET METAL

### SHEET METAL 3

#### Course Curriculum Areas of Study:

- Trade Math II
  - Introduction to Supervisory Skills
  - Air Properties and Distribution
  - Principles of Airflow
  - Air Testing and Balancing
  - Fabrication III - Triangulation
  - Plans and Specifications
  - Hands-on Shop Fabrication
- 

### SHEET METAL 4

#### Course Curriculum Areas of Study:

- Massachusetts Uniform Sheet Metal Code
  - Trade Math III - Field Measuring
  - Comprehensive Plan and Specification Reading
  - Soldering
  - Architectural Sheet Metal
  - Louvers, Dampers and Access Doors
  - Fabrication IV - Comprehensive Review
  - Hands-on Shop Fabrication
- 

### SHEET METAL 5

#### Course Curriculum Areas of Study:

- Trade Math - Estimating
  - Fume Exhaust Design
  - Introduction to Welding, Brazing and Cutting
  - Advanced Architectural Sheet Metal
  - Hands-on Shop Fabrication
  - Exam Review and Preparation
-

## PROGRAM CURRICULUM & REQUIREMENTS: SPRINKLERFITTING

### MASSACHUSETTS SPRINKLERFITTER APPRENTICE

#### **Sprinklerfitter Journeyman License Requirements**

- 576 classroom hours
- 8,000 field hours
- Apprentices MUST apply for an apprentice license through the Bureau of Pipefitters, Refrigeration Technicians, and Sprinklerfitters

### BUREAU OF PIPEFITTERS, REFRIGERATION TECHNICIANS, AND SPRINKLERFITTERS

Address: 1000 Washington Street, Suite 710  
Boston, MA 02118-6100

Phone: (617) 727-3200

[mass.gov/dps](http://mass.gov/dps) - Engineering Division

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### SPRINKLERFITTING 1

#### **Course Curriculum Areas of Study:**

- |                                         |                                          |
|-----------------------------------------|------------------------------------------|
| • Basic Safety                          | • Orientation to the Trade               |
| • Introduction to Construction Math     | • Introduction to Components and Systems |
| • Introduction to Hand Tools            | • Steel Pipe                             |
| • Introduction to Power Tools           | • CPVC Pipe and Fittings                 |
| • Introduction to Construction Drawings | • Copper Tube Systems                    |
| • Basic Rigging                         | • Underground Pipe                       |
| • Basic Communication Skills            |                                          |

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### SPRINKLERFITTING 2 \*not offered this year\*

#### **Course Curriculum Areas of Study:**

- |                                             |                                  |
|---------------------------------------------|----------------------------------|
| • Hangers, Supports, Restraints, and Guides | • Standard Spray Fire Sprinklers |
| • General Purpose Valves                    | • Wet Fire Sprinkler Systems     |
| • General Trade Math                        | • Dry-Pipe Systems               |
| • Shop Drawings                             |                                  |
-



## PROGRAM CURRICULUM & REQUIREMENTS: SPRINKLERFITTING

### SPRINKLERFITTING 3

#### Course Curriculum Areas of Study:

- Deluge/Preaction Systems
  - Standpipes
  - Water Supplies
  - Fire Pumps
  - Application-Specific Sprinklers and Nozzles
- 

### SPRINKLERFITTING 4 \*not offered this year\*

#### Course Curriculum Areas of Study:

- System Layout
  - Inspection, Testing, and Maintenance
  - Special Extinguishing Systems
  - Introductory Skills for Foreman
  - Procedures and Documentation
-

## CORRESPONDENCE COURSES

### CORRESPONDENCE PROGRAM

GCI's Correspondence Program is a "study at-your-own-pace" option for individuals who are self-motivated and enjoy learning from home or anywhere! Correspondence students will choose a trade of study, GCI will send the books, and testing will occur once monthly, **online**.

**Earn 150 clock hours toward your education and enroll in one of the following courses:**

- Bricklayer/Cement Mason
- Carpentry
- Concrete Finishing
- Construction Craft Laborer
- Heavy Equipment
- Insulating
- Ironworking
- Masonry
- Painting
- Roofing

#### CORRESPONDENCE

**ABC MEMBER: \$885.00**

**NOT YET A MEMBER: \$1,203.00**

#### SPECIAL LEVEL 4

**ABC MEMBER: \$940.00**

**NOT YET A MEMBER: \$1,258.00**

**For more information or to enroll in GCI's Correspondence program, please contact:**

**DIANE CRAVEN**  
**EDUCATION DIRECTOR**  
[diane@gwgci.org](mailto:diane@gwgci.org)

**OR**

**JEFF COURNOYER**  
**EDUCATION COORDINATOR**  
[jeff@gwgci.org](mailto:jeff@gwgci.org)

### SHEET METAL CORRESPONDENCE

GCI is pleased to offer this correspondence course intended for those pursuing their **Massachusetts Sheet Metal License**. This course is open to both ABC Members and Not-Yet-Members alike, and is available with two curriculum options:

- J-2 Restricted License - is made up of 3-course levels:
  - Sheet Metal 1, 2 & 3 - 150 hours of course time per level
- J-1 Unrestricted License - is made up of 5-course levels:
  - Sheet Metal 1, 2, 3, 4 & 5 - 150 hours of course time per level

Prerequisites:

- All applicants must be Board approved
- Restricted License applicants must have 6+ years of field experience
- Unrestricted License applicant must have at least 10-years of field experience
- Applicants who meet the prerequisite will be given the following:
  - Sheet Metal textbooks with exam questions for each chapter
  - Copy of Candidate Bulletin
  - List of reference materials
  - List of review questions for the final exam.

#### **RESTRICTED LICENSE:**

**ABC MEMBER: \$1,250.00**

**NOT YET A MEMBER: \$1,500.00**

#### **UNRESTRICTED LICENSE:**

**ABC MEMBER: \$1,500.00**

**NOT YET A MEMBER: \$2,000.00**

### ASME CODE REVIEW COURSE

This self-study, self-paced correspondence course is intended for those pursuing their **Massachusetts Pipefitters license** and is open to both ABC Members and Not-Yet-Members alike. This course is meant to be used in conjunction with the 2016 edition of the ASME/ANSI B31.1 Power Piping Code. A copy of the Code must be purchased through ASME directly. The course is divided into 14 modules of 25 hours each. Total of 350 hours.

**Prerequisite: 6+ years of experience in the field.**

Apprentices **MUST** apply for an apprentice license through the Bureau of Pipefitters, Refrigeration Technicians, and Sprinklerfitters **AND** register as an apprentice through the Division of Apprenticeship Standards.

**ABC MEMBER: \$549.00 / NOT YET A MEMBER: \$749.00**

## GCI LOCATIONS

### ANDOVER

#### **GREATER LAWRENCE TECHNICAL SCHOOL**

57 River Road  
Andover, MA 01810

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### CANTON

#### **MASSASOIT COMMUNITY COLLEGE**

900 Randolph Street  
Canton, MA 02021

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### FRANKLIN

#### **TRI-COUNTY REGIONAL VOCATIONAL TECHNICAL HIGH SCHOOL**

147 Pond Street  
Franklin, MA 02038

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### HOLYOKE

#### **HOLYOKE COMMUNITY COLLEGE**

303 Homestead Avenue  
Holyoke, MA 01040

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### MEDFORD

#### **MEDFORD VOCATIONAL TECHNICAL HIGH SCHOOL**

489 Winthrop Street  
Medford, MA 02155

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## GCI LOCATIONS

### **NORTH ADAMS**

#### **CHARLES H. MCANN TECHNICAL SCHOOL**

70 Hodges Cross Road  
North Adams, MA 01247

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### **SPRINGFIELD**

#### **SPRINGFIELD TECHNICAL COMMUNITY COLLEGE**

1 Armory Street  
Springfield, MA 01105

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### **TAUNTON**

#### **BRISTOL-PLYMOUTH REGIONAL TECHNICAL SCHOOL**

207 Hart Street  
Taunton, MA 02780

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### **WESTFIELD**

#### **WESTFIELD TECHNICAL ACADEMY**

33 Smith Avenue  
Holyoke, MA 01085

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### **WOBURN**

#### **GCI CENTRAL OFFICE**

100 Unicorn Park Drive, Suite 2  
Woburn, MA 01801

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**YOLANDA HUERTAS  
FINANCE MANAGER**

[yolanda@gwgci.org](mailto:yolanda@gwgci.org)



## 2021-2022 School Year

July 2021						
Su	M	Tu	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

August 2021						
Su	M	Tu	W	Th	F	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

17/18/19/30/31-Student Orientations

September 2021						
Su	M	Tu	W	Th	F	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

6-Labor Day

13/14-First Semester Begins

October 2021						
Su	M	Tu	W	Th	F	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

11-Columbus Day

November 2021						
Su	M	Tu	W	Th	F	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

11-Veterans Day

24/25-Thanksgiving

December 2021						
Su	M	Tu	W	Th	F	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

10-First Semester Ends

13 to 1/2-Winter Break

17-Progress Reports Sent out

January 2022						
Su	M	Tu	W	Th	F	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

3-Second Semester Begins

17-Martin Luther King Day

24-Progress Reports Due Back

February 2022						
Su	M	Tu	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

21 to 25-February Break

March 2022						
Su	M	Tu	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

April 2022						
Su	M	Tu	W	Th	F	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

May 2022						
Su	M	Tu	W	Th	F	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

27-Classes Done

June 2022						
Su	M	Tu	W	Th	F	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

### Key

- =No Class
- =Start/Finish dates
- =Due Dates
- =Teacher Professional Development
- =Business Orientations

Disclaimer-\*\*DATES SUBJECT TO CHANGE PENDING ON LOCATION\*\*  
Individual locations may have different off days.

**Gould Construction Institute**  
**100 Unicorn Park Drive, Suite 2**  
**Woburn, MA 01801**  
**[www.gwgci.org](http://www.gwgci.org)**

