



GOULD

CONSTRUCTION INSTITUTE



COURSE CATALOG

2022-2023

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
- PIPEFITTING
- PLUMBING
- REFRIGERATION
- SHEET METAL
- SPRINKLERFITTING

NINE **LOCATIONS*** ACROSS MA:

- ANDOVER
- FRANKLIN
- MANCHESTER, NH
- MEDFORD
- NORTH ADAMS
- PLYMOUTH
- SPRINGFIELD
- TAUNTON
- WOBURN



[GWGCI.ORG/INSTRUCTOR](https://www.gwgci.org/instructor)

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

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 [GWGCI.ORG/INSTRUCTOR](https://www.gwgci.org/instructor) FOR MORE INFORMATION AND RESOURCES.

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

Welcome back! I hope that each of you had a wonderful break and enjoyed time with family and friends.

The start of a new school year provides the ideal time to reflect on where we have been and where we are heading. We have spent the last couple of years facing the challenges of a worldwide pandemic, a shortage of teachers and adapting to the restrictions and limitations within the schools that we currently partner with to hold our classes.

We recognize that we need to be proactive and be prepared so that we can continue educating our students. Collectively, ABC MA and GCI have identified three major initiatives as part of our strategic plan that will help us get to where we need to be in the next 5 years.

1. New Training Model - consisting of hands-on training, daytime block schedule and full-time teachers
2. Facility Needs – our own brick and mortar school that will allow us to create a branded school culture
3. Funding –support the move to our own school location

It is imperative that the training model begin to evolve ASAP. The part-time instructor model has rapidly begun to implode. Between COVID changing behaviors and competitors promoting day training, more of our students are frustrated with the current model of school after work twice a week. As we move to a new daytime training model, with full-time instructors, we anticipate better results for both students and member firms. It has become clearer that we need to start with a phased approach that incorporates both short-term and long-term strategies.

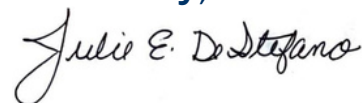
Starting this fall, we are launching an Electrical pilot program with a day training schedule of two-day blocks that includes a hybrid of in person classroom education and a hands-on shop /lab component.

The pilot will allow us time to review the impacts and modifications to the changes in the current model. We anticipate launching a similar pilot in Year 2 (Fall 2023) for Sheet Metal and for the remainder of the trades we teach (Fall 2024). Three years of evolution of the training models would provide adequate time to develop the long-term vision for the facility needs to accommodate day training with hands-on experience for all trades and the financial model needed.

We are excited to begin on this new journey and we appreciate your continued support as we work diligently to make the changes needed to keep our apprenticeship training program strong.

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

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.

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.

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**

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TUITION BREAKDOWN

Course	Relevant Locations	20-23 Tuition	Book Cost	Shop Fee	20-23 TOTAL
Trade Specific - 159 Hours - Member Tuition	Andover, Franklin, Manchester NH, Medford, North Adams, Taunton, Plymouth, Springfield, Woburn	\$1,609.00	\$175.00	n/a	\$1,784.00
Trade Specific - 159 Hours - Non Member Tuition	Andover, Franklin, Manchester NH, Medford, North Adams, Taunton, Plymouth, Springfield, Woburn	\$1,977.00	\$175.00	n/a	\$2,152.00
Hands-On Programs - 159 Hours - Member Tuition	Andover, Franklin, Manchester NH, Medford, North Adams, Taunton, Plymouth, Springfield, Woburn	\$1,609.00	\$175.00	\$225.00	\$2,009.00
Hands-On Programs - 159 Hours - Non Member Tuition	Andover, Franklin, Manchester NH, Medford, North Adams, Taunton, Plymouth, Springfield, Woburn	\$1,977.00	\$175.00	\$225.00	\$2,377.00
HVAC Contractor - 100 Hours - Member Tuition	Virtual Course	\$1,724.00	\$175.00	n/a	\$1,899.00
HVAC Contractor - 100 Hours - Non Member Tuition	Virtual Course	\$2,046.00	\$175.00	n/a	\$2,221.00
Plumbing Tiers and Gas Tiers	Springfield & North Adams Only	\$1,172.00	\$175.00	n/a	\$1,347.00
Sheet Metal: North Adams Location - 159 Hours	North Adams Only	\$1,229.00	\$175.00	\$225.00	\$1,629.00
Masters Electrical - 168 Hours	Springfield & North Adams Only	\$1,805.00	\$265.00	n/a	\$2,070.00
Course	Hours	Member	Non Member		
ASME Correspondence	350 Hours	\$604.00	\$804.00		
Sheet Metal Correspondence Restricted	450 Hours	\$1,250.00	\$1,500.00		
Sheet Metal Correspondence Unrestricted	350 Hours	\$1,500.00	\$2,000.00		
Correspondence	150 Hours	\$921.00	\$1,271.00		
Correspondence - Construction Craft Laborer 1	150 Hours	\$935.00	\$1,285.00		
Correspondence Special Level 4	150 Hours	\$1,035.00	\$1,384.00		

GCI GOLD STANDARD OF EDUCATION & INSTRUCTION

Gould Construction Institute is fully licensed by the Division of Occupational Licensure and the 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 |

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.

Contact Diane Craven to schedule a custom training: diane@gwgci.org

VIRTUAL COURSES AVAILABLE NOW:

BASIC MATH - \$149

BLUEPRINT READING - \$229

BOOKKEEPING BASICS - \$369

BUSINESS LITERACY - \$249

CAREER READINESS BOOTCAMP - \$179

COMPUTER APPLICATIONS - \$629

DIGITAL LITERACY - \$369

***ACC111- FINANCIAL ACCOUNTING - \$629**

FRONTLINE SUPERVISOR - \$769

HIGH SCHOOL DIPLOMA PROGRAM - \$1,189

HOT WORK SAFETY CERTIFICATION FOR MA - \$59

INDUSTRIAL SAFETY - \$369

INTRO TO CONSTRUCTION - \$149

***BUS110- PRINCIPLES OF MANAGEMENT - \$629**

STARTING YOUR OWN BUSINESS - \$499

SUPERVISING THE FRONT LINE - \$369

SUPERVISORY SKILLS FOR THE INDUSTRIAL WORKPLACE - \$539

***ACC111 & BUS110 QUALIFY FOR COLLEGE CREDITS**

**FOR COURSE DESCRIPTIONS AND TO REGISTER FOR A VIRTUAL COURSE,
PLEASE VISIT THE "ONLINE COURSES" SECTION AT [GWGCI.ORG](https://www.gwgci.org).**

**FOR ANY QUESTIONS ABOUT VIRTUAL COURSES, PLEASE CONTACT:
DIANE CRAVEN, GCI EDUCATION DIRECTOR: DIANE@GWGCI.ORG**

ANDOVER - GREATER LAWRENCE TECHNICAL SCHOOL

Sheet Metal 1 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 24 & 25.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Sheet Metal 2 (Hands-On) - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 24 & 25.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

ABC Member: \$2,009.00 / Not Yet A Member: \$2,377.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,834.00 / Not Yet A Member: \$2,202.00

Sheet Metal 3 (Hands-On) - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 24 & 25.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

ABC Member: \$2,009.00 / Not Yet A Member: \$2,377.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,834.00 / Not Yet A Member: \$2,202.00

Sheet Metal 4 (Hands-On) - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 24 & 25.

September 6, 2022 - May 2023 - 5:30 PM - 8:30 PM - Tuesdays & Thursdays

ABC Member: \$2,009.00 / Not Yet A Member: \$2,377.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,834.00 / Not Yet A Member: \$2,202.00

Sprinklerfitting 2 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 26 & 27.

September 6, 2022 - May 2023 - 5:30 PM - 8:30 PM - Tuesdays & Thursdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Sprinklerfitting 4 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 26 & 27.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Carpentry 3 (Hands-On) - (159 Hours)

More course information, curriculum and program requirements can be found on Page 13.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

ABC Member: \$2,009.00 / Not Yet A Member: \$2,377.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,834.00 / Not Yet A Member: \$2,202.00

Construction Craft Laborer 1 - (159 Hours) - NEW!

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Electrical 2 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Electrical 4 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Sheet Metal 2 (Hands-On) - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 24 & 25.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

ABC Member: \$2,009.00 / Not Yet A Member: \$2,377.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,834.00 / Not Yet A Member: \$2,202.00

Sheet Metal 5 (Hands-On) - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 24 & 25.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

ABC Member: \$2,009.00 / Not Yet A Member: \$2,377.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,834.00 / Not Yet A Member: \$2,202.00

MANCHESTER, NH - OSHA INSTITUTE AT KEENE STATE

Sheet Metal 1 (MA Journeyman License) - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 24 & 25.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

MEDFORD - MEDFORD VOCATIONAL TECHNICAL HS

Electrical 1 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 6, 2022 - May 2023 - 5:30 PM - 8:30 PM - Tuesdays & Thursdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Electrical 1 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 7, 2022 - May 2023 - 6:00 PM - 9:00 PM - Mondays & Wednesdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Electrical 2 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 6, 2022 - May 2023 - 5:30 PM - 8:30 PM - Tuesdays & Thursdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Electrical 2 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 7, 2022 - May 2023 - 6:00 PM - 9:00 PM - Mondays & Wednesdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Electrical 3 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 7, 2022 - May 2023 - 6:00 PM - 9:00 PM - Mondays & Wednesdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Electrical 4 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 6, 2022 - May 2023 - 5:30 PM - 8:30 PM - Tuesdays & Thursdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Electrical 4 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 7, 2022 - May 2023 - 6:00 PM - 9:00 PM - Mondays & Wednesdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Pipefitting 2 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 20 & 21.

September 6, 2022 - May 2023 - 5:30 PM - 8:30 PM - Tuesdays & Thursdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Refrigeration Tech 3 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 18 & 19.

September 7, 2022 - May 2023 - 6:00 PM - 9:00 PM - Mondays & Wednesdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Sheet Metal 5 (Hands-On) - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 24 & 25.

September 7, 2022 - May 2023 - 6:00 PM - 9:00 PM - Mondays & Wednesdays

ABC Member: \$2,009.00 / Not Yet A Member: \$2,377.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,834.00 / Not Yet A Member: \$2,202.00

NORTH ADAMS - MCCANN TECHNICAL HIGH SCHOOL

Plumbing 2 - (120 Hours)

More course information, curriculum and program requirements can be found on Pages 22 & 23.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

Tuition: \$1,347.00 - Early Bird Pricing (6/20/22-7/1/22) - Tuition: \$1,172.00

Plumbing 4 - (120 Hours)

More course information, curriculum and program requirements can be found on Pages 22 & 23.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

Tuition: \$1,347.00 - Early Bird Pricing (6/20/22-7/1/22) - Tuition: \$1,172.00

Sheet Metal 4 (Hands-On) - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 24 & 25.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

Tuition: \$1,629.00 - Early Bird Pricing (6/20/22-7/1/22) - Tuition: \$1,454.00

PLYMOUTH - DAYTIME COURSES - NEW THIS YEAR!

Electrical 1 - (160 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 6, 2022 - May 2023 - 7:00 AM - 3:30 PM - Tuesdays, every other week

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Electrical 2 - (160 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 7, 2022 - May 2023 - 7:00 AM - 3:30 PM - Wednesdays, every other week

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Electrical 3 - (160 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 8, 2022 - May 2023 - 7:00 AM - 3:30 PM - Thursdays, every other week

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Electrical 4 - (160 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 9, 2022 - May 2023 - 7:00 AM - 3:30 PM - Fridays, every other week

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Electrical 1 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 6, 2022 - May 2023 - 5:30 PM - 8:30 PM - Tuesdays & Thursdays

Tuition: \$2,066.00 - Early Bird Pricing (6/20/22-7/1/22) - Tuition: \$1,891.00

Electrical 2 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 6, 2022 - May 2023 - 5:30 PM - 8:30 PM - Tuesdays & Thursdays

Tuition: \$2,066.00 - Early Bird Pricing (6/20/22-7/1/22) - Tuition: \$1,891.00

Electrical 3 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 6, 2022 - May 2023 - 5:30 PM - 8:30 PM - Tuesdays & Thursdays

Tuition: \$2,066.00 - Early Bird Pricing (6/20/22-7/1/22) - Tuition: \$1,891.00

Electrical 4 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 6, 2022 - May 2023 - 5:30 PM - 8:30 PM - Tuesdays & Thursdays

Tuition: \$2,066.00 - Early Bird Pricing (6/20/22-7/1/22) - Tuition: \$1,891.00

Electrical Masters - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

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

Plumbing Tier 1 - (120 Hours)

More course information, curriculum and program requirements can be found on Pages 22 & 23.

September 6, 2022 - May 2023 - 4:00 PM - 7:00 PM - Tuesdays & Thursdays

Tuition: \$1,347.00 - Early Bird Pricing (6/20/22-7/1/22) - Tuition: \$1,172.00

Plumbing Tier 2 - (120 Hours)

More course information, curriculum and program requirements can be found on Pages 22 & 23.

September 6, 2022 - May 2023 - 4:00 PM - 7:00 PM - Tuesdays & Thursdays

Tuition: \$1,347.00 - Early Bird Pricing (6/20/22-7/1/22) - Tuition: \$1,172.00

Plumbing Tier 3 - (120 Hours)

More course information, curriculum and program requirements can be found on Pages 22 & 23.

September 6, 2022 - May 2023 - 4:00 PM - 7:00 PM - Tuesdays & Thursdays

Tuition: \$1,347.00 - Early Bird Pricing (6/20/22-7/1/22) - Tuition: \$1,172.00

SPRINGFIELD - STCC

Plumbing Tier 4 - (120 Hours)

More course information, curriculum and program requirements can be found on Pages 22 & 23.

September 7, 2022 - May 2023 - 4:00 PM - 7:00 PM - Mondays & Wednesdays

Tuition: \$1,347.00 - Early Bird Pricing (6/20/22-7/1/22) - Tuition: \$1,172.00

Plumbing Tier 5 - (120 Hours)

More course information, curriculum and program requirements can be found on Pages 22 & 23.

September 6, 2022 - May 2023 - 4:00 PM - 7:00 PM - Tuesdays & Thursdays

Tuition: \$1,347.00 - Early Bird Pricing (6/20/22-7/1/22) - Tuition: \$1,172.00

Pipefitting 1 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 20 & 21.

September 6, 2022 - May 2023 - 5:30 PM - 8:30 PM - Tuesdays & Thursdays

Tuition: \$2,066.00 - Early Bird Pricing (6/20/22-7/1/22) - Tuition: \$1,891.00

TAUNTON - BRISTOL PLYMOUTH RTS

Pipefitting 1 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 20 & 21.

September 6, 2022 - May 2023 - 5:30 PM - 8:30 PM - Tuesdays & Thursdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Pipefitting 2 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 20 & 21.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Refrigeration Tech 2 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 18 & 19.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Sheet Metal 2 - (Hands-On) - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 24 & 25.

September 6, 2022 - May 2023 - 5:30 PM - 8:30 PM - Tuesdays & Thursdays

ABC Member: \$2,009.00 / Not Yet A Member: \$2,377.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,834.00 / Not Yet A Member: \$2,202.00

Sheet Metal 3 - (Hands-On) - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 24 & 25.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

ABC Member: \$2,009.00 / Not Yet A Member: \$2,377.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,834.00 / Not Yet A Member: \$2,202.00

Sheet Metal 4 - (Hands-On) - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 24 & 25.

September 6, 2022 - May 2023 - 5:30 PM - 8:30 PM - Tuesdays & Thursdays

ABC Member: \$2,009.00 / Not Yet A Member: \$2,377.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,834.00 / Not Yet A Member: \$2,202.00

Sprinklerfitting 1 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 26 & 27.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Sprinklerfitting 4 - (159 Hours)

More course information, curriculum and program requirements can be found on Pages 26 & 27.

September 6, 2022 - May 2023 - 5:30 PM - 8:30 PM - Tuesdays & Thursdays

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

WOBURN - DAYTIME COURSES - GCI OFFICE- **NEW THIS YEAR!**

Electrical 1 - (160 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 13, 2022 - May 2023 - 7:00 AM - 3:30 PM - Tuesdays, every other week

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Electrical 2 - (160 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 14, 2022 - May 2023 - 7:00 AM - 3:30 PM - Wednesdays, every other week

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Electrical 3 - (160 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16.

September 15, 2022 - May 2023 - 7:00 AM - 3:30 PM - Thursdays, every other week

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

Electrical 4 - (160 Hours)

More course information, curriculum and program requirements can be found on Pages 14, 15 & 16..

September 16, 2022 - May 2023 - 7:00 AM - 3:30 PM - Fridays, every other week

ABC Member: \$1,784.00 / Not Yet A Member: \$2,152.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,609.00 / Not Yet A Member: \$1,977.00

VIRTUAL TRADE CLASSES

Refrigeration Contractor - (Instructed Virtually) - (100 Hours)

More course information, curriculum and program requirements can be found on Pages 18 & 19.

September 7, 2022 - May 2023 - 5:30 PM - 8:30 PM - Mondays & Wednesdays

ABC Member: \$1,899.00 / Not Yet A Member: \$2,221.00

Early Bird Pricing (6/20/22-7/1/22) - ABC Member: \$1,724.00 / Not Yet A Member: \$2,046.00

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 *not offered this year*

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

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

- High School Diploma or GED
- 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

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 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 Electrical Trade
 - Electrical Safety
 - Introduction to Electrical Circuits
 - Electrical Theory
 - Introduction to the National Electrical Code (NEC)
 - Device Boxes
 - Hand Bending
 - Raceways and Fittings
 - Conductors and Cables
 - Basic Electrical Construction Drawings
 - Residential Electrical Services
 - Electrical Test Equipment.
-

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

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: GASFITTING

MASSACHUSETTS GAS FITTING APPRENTICE

Gas Fitting Journeyman License Requirements

- High School Diploma or GED
- 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 - Engineering Division

GAS FITTING TIER 1 *not offered this year*

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
248 CMR 3.00 |
| • Introduction to Power Tools | • Education and Experience Requirements for
Licensure 248 CMR 11.00 |
| • Introduction to Construction Drawings | • Massachusetts Modifications to Sections of NFPA
54 248 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 | |

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: REFRIGERATION

MASSACHUSETTS REFRIGERATION APPRENTICE

Refrigeration/Air Technician License Requirements

- High School Diploma or GED
- 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 - Engineering Division

REFRIGERATION TECH 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 |

REFRIGERATION TECH 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: REFRIGERATION

REFRIGERATION TECH 3

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

REFRIGERATION TECH 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

- High School Diploma or GED
- 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 - Engineering Division

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

- High School Diploma or GED
- 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

PLUMBING TIER I

Course Curriculum Areas of Study:

- | | |
|--|--|
| <ul style="list-style-type: none"> • Basic Safety • Introduction to Construction Math • Introduction to Hand Tools • Introduction to Power Tools • Introduction to Construction Drawings • Basic Rigging • Basic Communication Skills • Introduction to Plumbing • Plumbing Safety • Tools of the Plumbing Trade | <ul style="list-style-type: none"> • Introduction to Plumbing Math • Introduction to Plumbing Drawings • Plastic Pipe and Fittings • Copper Tube and Fittings • Cast-Iron Pipe and Fittings • Carbon Steel Pipe and Fittings • Introduction to Plumbing Fixtures • Introduction to Drain, Waste and Vent (DWV) Systems |
|--|--|

PLUMBING TIER II

Course Curriculum Areas of Study:

- | | |
|--|---|
| <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Types of Valves • Installing Fixtures and Valves • Installing Water Heaters • Basic Electricity • Fuel Gas and Fuel Oil Systems |
|--|---|

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
 - High School Diploma or GED
 - 750 classroom hours
 - 8,000 field hours
- Restricted License
 - High School Diploma or GED
 - 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

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 | |

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

- High School Diploma or GED
- 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 - Engineering Division

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 | |

SPRINKLERFITTING 2

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 | |
-

SPRINKLERFITTING 3 *not offered this year***Course Curriculum Areas of Study:**

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

SPRINKLERFITTING 4**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 | • Insulating |
| • Carpentry | • Ironworking |
| • Concrete Finishing | • Masonry |
| • Construction Craft Laborer | • Painting |
| • Heavy Equipment | • Roofing |

CORRESPONDENCE

ABC MEMBER: \$921.00
NOT YET A MEMBER: \$1,271.00

SPECIAL LEVEL 4

ABC MEMBER: \$1,035.00
NOT YET A MEMBER: \$1,384.00

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

DIANE CRAVEN - EDUCATION DIRECTOR

diane@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 applicants 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: \$604.00 / NOT YET A MEMBER: \$824.00

GCI LOCATIONS

ANDOVER, MASSACHUSETTS

GREATER LAWRENCE TECHNICAL SCHOOL

57 River Road
Andover, MA 01810

FRANKLIN, MASSACHUSETTS

TRI-COUNTY REGIONAL VOCATIONAL TECHNICAL HIGH SCHOOL

147 Pond Street
Franklin, MA 02038

MANCHESTER, NEW HAMPSHIRE

HOSHA TRAINING INSTITUTE EDUCATION CENTER

1050 Perimeter Road, Suite 202
Manchester, NH 03103

MEDFORD, MASSACHUSETTS

MEDFORD VOCATIONAL TECHNICAL HIGH SCHOOL

489 Winthrop Street
Medford, MA 02155

NORTH ADAMS, MASSACHUSETTS

CHARLES H. MCANN TECHNICAL SCHOOL

70 Hodges Cross Road
North Adams, MA 01247

PLYMOUTH, MASSACHUSETTS

NEW GCI SATELLITE LOCATION

70 Industrial Park Road
Plymouth, MA 02360

SPRINGFIELD, MASSACHUSETTS

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

1 Armory Street
Springfield, MA 01105

TAUNTON, MASSACHUSETTS

BRISTOL-PLYMOUTH REGIONAL TECHNICAL SCHOOL

207 Hart Street
Taunton, MA 02780

WOBURN, MASSACHUSETTS

GCI/ABC MA CENTRAL OFFICE

100 Unicorn Park Drive, Suite 2
Woburn, MA 01801

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mike@gwgci.org

YOLANDA HUERTAS BOOKKEEPER/OFFICE ADMINISTRATOR

yolanda@gwgci.org

July 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						

September 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	

1-Student Orientations
5-Labor Day
6,7-School Starts

December 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

19,20-Professional Development Days 19 till
30-Holiday Break/No classes

March 2023						
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	

June 2023						
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	

June 2023						
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	

Education & Training Affiliate of ABC Massachusetts
100 Unicorn Park Drive, Suite 2
Woburn, MA 01801
781-270-9990
www.gwgci.org

August 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			

18, 23, 31-Teacher Orientations
15, 24, 30-Student Orientations
22, 25-Company Orientations
29-New Teacher Orientation

October 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					

10-Columbus Day

January 2023						
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				

2,3-Return to Class
9-Progress Reports go out
16-Martin Luther King, Jr Holiday
23-Progress Reports Due Back

April 2023						
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						

17 to 21-No class, HS locations



2022 - 2023 School Year

November 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			

11- Veterans Day
23, 24, 25-Thanksgiving Break

February 2023						
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				

20-Presidents Day
20 to 24-No Class, HS LOCATIONS ONLY

May 2023						
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			

Key

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

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

>>>>>> Important Notes <<<<<<

Each location may have Open House, Parent Teacher Nights, school closures.
Be sure to check www.gwgci.org for any updates!
High school locations will be closed in the event of inclement weather, stay connected! Check your emails, texts, social media!

Gould Construction Institute
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Woburn, MA 01801
www.gwgci.org

