



Flux-Cored Arc Welding (FCAW)

Basic FCAW

Training will consist of both classroom and booth time. Classroom topics include welding safety, weld quality, equipment setup, electrode classification, FCAW technique, shielding gases, and basic troubleshooting. Students will spend the majority of their time in individual booths learning the proper technique for flat and out of position fillet welds on carbon steel using E71T-1 electrodes and C25 shielding gas. Boots and long pants are mandatory. Welding helmets, jackets, safety glasses, gloves, and written materials will be distributed on the first night. *Maximum Attendees: 6*

One Day MIG Clinic

The one day MIG clinic provides the student with a basic understanding of gas metal arc welding (GMAW). Class topics include GMAW techniques, power sources, electrode classification, weld metal transfer, shielding gases, basic troubleshooting, and welding safety. Students will spend time in the welding booths learning MIG techniques on carbon steel. Safety equipment and lunch will be provided by the school. *Maximum Attendees: 6*

115 MIG Welding - Home and Hobbyist

Maximum Attendees: 6

One Day TIG Clinic

The one day TIG clinic provides the student with a basic understanding of gas tungsten arc welding (GTAW). Class topics include GTAW techniques, power sources, electrode classification, welding safety, and basic troubleshooting. Students will spend time in the welding booths learning TIG techniques on carbon steel and aluminum. Safety equipment and lunch provided by the school. *Maximum Attendees: 6*

Who We Are

The New England School of Metalwork is a non-profit educational facility devoted to the training of welders and artistic blacksmiths. Student enrollment and course offerings have increased dramatically since the welding program started in late 2001. Currently, we have courses in SMAW, GMAW, GTAW, FCAW, oxy fuel, and plasma. We can also present training programs on site at the customer's location.

Private Lessons and Customized Training

One of the school's greatest strengths is its flexibility. In addition to our scheduled programs and clinics, the New England School of Metalwork offers private lessons and customized courses to those students and companies that require specific training in a process or application. Training of this type may run from a half-day seminar to several days of intense instruction. The school can organize most customized training programs with little advance notice.

Certifications

The New England School of Metalwork can also qualify welding procedures and welders for companies that require certifications under various codes. Call 1-888-753-7502 or 207-777-6211 for more details.

Mobile Weld Training Center

The mobile weld training center is fully self-sufficient and capable of training up to eight students at a time. The mobile unit contains its own 85 KW power supply, welding gases, compressed air, and fume extraction system. It is designed to not only give hands-on training, but also serve as a classroom for welding process theory and safety training.

Locations

7 Albiston Way, Auburn, Maine 04210 • 1-888-753-7502 • 207-777-6211

81 Londonderry Turnpike, Hooksett, New Hampshire 03106 • 603-518-1657 • 1-888-753-7502

Mobile Weld Training Center • 1-888-753-7502

www.newenglandschoolofmetalwork.com

The New England School of Metalwork is a 501 C-3 non-profit organization who specializes in the training and education of the welding and blacksmithing industries.



7 ALBISTON WAY
AUBURN ME 04210-4869



NEW ENGLAND
SCHOOL OF
METALWORK

2009 Class Schedule





Gas Tungsten Arc Welding (GTAW)

The objective of the Gas Tungsten Arc Welding (GTAW) programs is to give students the knowledge and skill required to consistently produce high quality welds. Classroom presentations include welding safety, GTAW theory and technique, tungsten selection, shielding gases, and troubleshooting. Hands on training is designed to improve the student's skills in welding on carbon and stainless steel or aluminum of various thickness.

Basic GTAW Level 1

This course expands on the material presented in the one day TIG clinic. Class topics include welding safety, electrode classification, power sources, GTAW technique, shielding gases, and basic troubleshooting. Students spend the majority of their time in individual booths learning the proper technique for flat and out of position welding using carbon and stainless steel and aluminum filler materials. Boots and long pants are mandatory. Welding helmets, jackets, safety glasses, gloves, and written materials will be distributed on the first night. *Maximum Attendees: 6*

GTAW Level 2

One of the strengths of GTAW is the ability to work with precision at low amperages. This course allows the student to practice GTAW on light gauge carbon and stainless steels and aluminum using conventional and pulse technologies. Students will also GTAW pipe of various materials and wall thickness. Instruction consists of GTAW preparation and technique, current control, and troubleshooting for welding light gauge materials.

STUDENTS MUST HAVE COMPLETED THE BASIC GTAW COURSE OR BE INTERMEDIATE LEVEL WELDERS WITH GTAW EXPERIENCE TO TAKE THIS COURSE.

Boots and long pants are mandatory. Welding helmets, welding jackets, safety glasses, and gloves are included in the cost of the class and will be distributed on the first night. *Maximum Attendees: 6*

Basic Shielded Metal Arc Welding (SMAW) — Stick

SMAW Level 1

The Level 1 stick course is designed for the hobbyist as well as those who plan on entering the welding profession. Class topics include welding safety, electrode classification, machine setup, SMAW technique, and troubleshooting. Students are instructed in the proper techniques for welding fillets using 6010 and 6013 electrodes. Boots and long pants are mandatory. Welding helmets, jackets, safety glasses, gloves, and written materials will be distributed on the first night. *Maximum Attendees: 6*

SMAW Level 2 - Intermediate Stick 7018

The Level 2 stick course works exclusively with E7018 low hydrogen electrodes. Students are instructed in the proper techniques for welding fillets in all positions with E7018. Class topics include welding safety, electrode classification, machine setup, SMAW technique, and troubleshooting. Boots and long pants are mandatory. Welding helmets, jackets, safety glasses, gloves and written materials will be distributed on the first night. *Maximum Attendees: 6*

SMAW Level 3 - V Groove Butt Welds

This course is designed for students to learn the proper technique in welding V groove butt welds. Instruction consists of coupon preparation, welding technique, and troubleshooting for welding in all positions with and without backing. Students will be introduced to visual and destructive testing. STUDENTS MUST HAVE COMPLETED THE SMAW LEVEL 2 COURSE OR BE INTERMEDIATE LEVEL WELDERS WITH SMAW EXPERIENCE TO TAKE THIS COURSE. Maximum Attendees: 6

Yes, please add me to the New England School of Metalwork mailing list.

Name: _____

Mailing Address: _____

City/State/Zip: _____

Daytime Phone: _____

E-mail Address: _____

Please place a stamp on the reverse side and mail, or fax this card to the New England School of Metalwork at 207-784-5383.

SMAW Level 4 - AWS D1.1 Test Prep

This course prepares the student for the AWS limited and unlimited structural plate certification tests. Instruction consists of coupon preparation, welding technique, and troubleshooting for the vertical and overhead tests. Each student will have the opportunity to practice technique on 3/8 and one-inch test coupons. **STUDENTS MUST HAVE COMPLETED THE SMAW LEVEL 2 and 3 COURSES OR BE INTERMEDIATE LEVEL WELDERS WITH E7018 ELECTRODE EXPERIENCE TO TAKE THIS COURSE.**

The New England School of Metalwork does not guarantee that a student will pass a welding test upon completion of this course. The intent of this course is test preparation only. Boots and long pants are mandatory. Welding helmets, jackets, safety glasses, gloves and written materials will be distributed on the first night. *Maximum Attendees: 6*

SMAW Level 5 - Pipe

This is an introductory course in pipe welding. Instruction consists of coupon preparation, welding technique, and troubleshooting for pipe welding in the 2G, 5G, and 6G positions. Students will work with both E6010 in the root pass and E7018 in the fill and cover passes. **STUDENTS MUST HAVE COMPLETED THE SMAW LEVEL 2 and 3 COURSES OR BE INTERMEDIATE LEVEL WELDERS WITH E6010 AND E7018 ELECTRODE EXPERIENCE TO TAKE THIS COURSE.** Boots and long pants are mandatory. Welding helmets, jackets, safety glasses, gloves and written materials will be distributed on the first night. *Maximum Attendees: 6*

Gas Metal Arc Welding (GMAW)

The Gas Metal Arc Welding (GMAW) programs allow students to become proficient in the most prevalent arc welding process in manufacturing today. Classroom topics cover GMAW techniques, electrode classification, weld metal transfer, shielding gases, troubleshooting and welding safety. Students are taught the correct method to weld fillet and groove joints on carbon steel during hands on sessions. The Basic GMAW/FCAW and Level 2 courses also include training in the Flux Cored Arc Welding (FCAW) process.

Basic GMAW

This course expands on the material presented in the one day MIG/GMAW clinic. Class topics include welding safety, electrode classification, power sources, GMAW technique, shielding gases, and basic troubleshooting. Students spend the majority of their time in individual booths learning the proper technique for flat and out of position welding using solid electrodes. Boots and long pants are mandatory. Welding helmets, jackets, safety glasses, gloves, and written materials will be distributed on the first night. *Maximum Attendees: 6*