



2024

Lincoln Electric
Technical Training
Course Catalog

Make Your Mark in Welding With a Hand from Lincoln Electric

Founded in 1895, Lincoln Electric has been a leader and innovator in the design and production of arc welding equipment and consumables since the beginning of the welding industry. Headquartered in Cleveland, Ohio, we are also a worldwide leader in robotic arc welding systems as well as plasma and oxyfuel cutting equipment.

With over a century of leadership in welding education, our education team is committed to your career success.

- The Lincoln Electric Welding Technology & Training Center is a world-class training facility for welders and those who train welders, filled with the latest in booth and classroom equipment and practices.
- Our expert instructors are trained to instruct you on the science and the practice of welding, so that you understand why you perform a particular weld and how best to do it.
- Our Comprehensive Program covers every primary arc welding process and material type as well as oxyfuel and plasma cutting, preparing you to tackle a number of welding certifications.
- Our programs extend to seminars and workshops for professional development.
- Custom Training is available to any company's production team to learn about new technologies and equipment or master a weld for qualification.



Join the elite welders who pass through our training programs each year, prepared to face the challenges of the welding and fabrication industry.

Prices, policies and dates listed in this guide are subject to change. Please check current prices and class dates at: <http://classes.lincolnelectric.com>

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MyLincoln™ Education Portal

Welding Products

Lincoln Electric is the world's leading manufacturer of arc welding equipment, consumables and accessories for stick, TIG, MIG, flux-cored and submerged arc welding, as well as oxyfuel and plasma cutting. We manufacture a full line of products for welding schools, light to heavy duty metal fabricators, maintenance shops, home use and more. Lincoln Electric's product list includes:

- » Welding equipment
- » Welding consumables
- » Personal protection equipment
- » Accessory equipment and parts
- » Cutting equipment
- » Robotics
- » Fume control systems
- » Gas apparatus by The Harris Products Group®

Educational Discounts

- » Lincoln Electric offers educational discounts to qualified teaching facilities on eligible welding equipment and other products. The Lincoln Electric Educational Discount is applied through sales to schools by our network of welding distributors.
- » In addition, welding instructors and industry trainers are eligible for substantial savings on 1-2 week welding process classes.

FREE Resources

- » Posters
- » Decals
- » Welding training videos
- » Welding guides
- » Technical documents
- » Lesson plans



Welding Gear + Tools + Consumables



Fume Extraction Units + Filters



Harris Products



Guns + Accessories

>>> IT PAY\$ TO BE ON THE PORTAL!



- 1** Register to participate in the MyLincoln™ Education Portal: www.LincolnElectric.com/EducationPortal
- 2** Log in to the portal to order consumables, gear, parts and accessories. Special pricing applies to online orders only.
- 3** Lincoln Electric will ship the order directly to your school. Free Standard Shipping on orders over \$500.

MyLincoln™ Educational Portal

offers teaching facilities (schools, job corps, unions and correctional facilities) FREE educational resources and exclusive education pricing on welding program supplies. Through the web-based portal, instructors can access lesson plans, safety materials, videos and posters- in addition to the deep discounts and **FREE** shipping on orders over \$500, premium welding consumables, gear, guns, Harris products, fume extraction units and much more! **Questions? Call: 888.610.1095**

▶ Start saving! Register today:
www.LincolnElectric.com/EducationPortal

Where to Get More Details

For complete details on all Lincoln Electric welding products, see our website at www.lincolnelectric.com and/or request a digital copy of our product catalog [E1.10]. For Questions, contact us at educationalsales@lincolnelectric.com, or your local Lincoln Electric Technical Sales Representative.



Arc Welding Safety – Materials and Products

Lincoln Electric Safety Materials - www.lincolnelectric.com/safety

At Lincoln Electric, we are committed to providing teachers and students with products, information and resources designed to ensure safety in the classroom and on the job site. These resources include:

- » Welding helmets, welding safety glasses, welding gloves, welding clothing and other safety equipment
- » Weld safety video series
- » Weld safety FAQs
- » Weld fume control solutions
- » Arc welding safety posters, brochures and data sheets

ANSI Z49.1 Safety Document

The American Welding Society offers a **FREE** download of the American National Standard Institutes's "Safety in Welding, Cutting, and Allied Processes" document (ANSI Z49.1:2012). This is the welding industry's comprehensive reference on safety. This document is a must for every welding school, fabricator and home hobbyist. Get your free copy today at: www.aws.org/standards/page/free-downloads.

Environmental Systems for Welding Schools

Some welding applications (welding school booths, welding in confined spaces, etc.) may warrant additional safety precautions from welding fumes, such as using weld fume control equipment. Lincoln Electric offers a full line of environmental systems for schools and welding shops. Product solutions vary from single or dual arm units to multi-arm centralized fume control systems. Some of the advantages of a system by Lincoln Electric are:

- » Expert technical assistance available from one company on all your welding products – equipment, consumables and fume control systems
- » Follow OSHA and AWS guidelines
- » Reduce energy costs by indoor recirculation vs. exhausting to outside
- » Provide source capture using lightweight user-friendly arms
- » Offer working lamp and arc sensor technology options
- » Variable speed fans which increase or decrease based on demand
- » Sound-absorbing boxes and in-line duct silencer lessen noise



For More Information, Contact: Phone: 216-383-2667 · Email: weldfumecontrol@lincolnelectric.com · www.lincolnweldfumecontrol.com

Overview of Welding School

School Offerings

Lincoln Electric operates the longest-running welding school in the world. Founded in 1917, the school has taught over 150,000 students from the United States and abroad. Our professional staff of instructors bring a wealth of knowledge and experience to every classroom and lab experience.

Lincoln Electric’s Welding School offers a variety of classes, from a two-day Weekend With Metal course to an advanced 16 Week Comprehensive Program, as well as one-week classes on specific welding processes, certification or customized programs.

Unless otherwise indicated, courses are held 8:00 a.m. – 4:00 p.m. Monday-Thursday, 50 weeks per year.

Students spend about 40% of their time in the classroom and 60% in the booth learning to weld. The instructor-to-student ratio is kept low to provide plenty of individual guidance. A large supply of steel plate is provided so students spend all their time learning to weld, not cutting and preparing practice coupons.

Benefits of Attending

- » Learn welding from a proven industry leader and operator of the longest continually operating welding training program in the world.
- » Train at a major hub for welding research and development at Lincoln Electric’s global headquarters campus.
- » Practice on the most advanced welding equipment and the best consumables in the industry.
- » Work with highly trained and qualified instructors committed to your success.
- » Learn and practice in a safe working environment. Receive a Lincoln Electric Welding School graduation certificate upon successfully completing the course. Combine your new welding skills with Lincoln Electric’s reputation for producing quality students to improve your chances of landing a great welding job.
- » All classes are conducted at the Lincoln Electric Welding Technology and Training Center unless indicated otherwise.

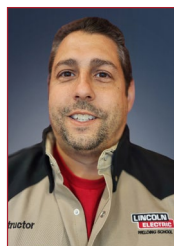
WELDING INSTRUCTORS



Vince Casella



Scott Galippo



Michael Khalil



Charlie LaRiche



Bill Miller

OFFICE STAFF

Scott Strawn Director, Global Applications and Education
 Charlie LaRiche Supervisor, Welding Instructor
 Keith Anderle Student Information System Administrator
 Heather Shadle Educational Services Coordinator

Online Course Registration

Registration Information

Register online for all Lincoln Electric training courses, including Professional Seminars, Distributor Training Programs, Service School Courses, Robotic Training Courses, and Welding School Courses.

How To Register

Register for all courses with a few simple steps: Go to the Lincoln Electric website at www.lincolnelectric.com.

1. Click **EDUCATION** from the home page and select **TRAINING PROGRAMS**
2. Select **WELDING CLASSES & SEMINARS**
3. Select **WELDING SCHOOL, SEMINARS/WORKSHOPS, DISTRIBUTOR TRAINING or SERVICE SCHOOL**
4. Select a course

Registration and Payment Questions?

Contact the Lincoln Electric Education Team
 Phone: +1 (844) 818-6038
 Email: weldtraining@lincolnelectric.com

Service School Questions?

Contact Carmen Becker
 Phone: +1 (216) 838-2310
 Email: carmen_becker@lincolnelectric.com

International Training Questions?

Contact Customer Experience:
 Email: customer_experience@lincolnelectric.com

Automation School Questions?

Phone: +1 (888) 935-3878
 Class dates are subject to change or cancellation. Visit <https://www.lincolnelectric.com/en/Education/Training-Programs/Corporate/Robotic-Automation-Training> for current class dates.



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Course	Sections	Description
WIWW201	SECTIONS	<p>Women in Welding Weekend A two-day introduction to welding created just for women. Join other women in learning, creating and welding with a female welding instructor. The first day of class begins with a discussion of safety and proper attire in welding gear loaned by Lincoln. Later, we'll learn about the history and process of SMAW to prepare to weld. Practice on a virtual reality welder before heading out to the lab for some hands-on experience. The following day, we'll roll into the GMAW process and more practice in the morning. During the afternoon, all participants will receive Torchmate™ cut pieces and one-on-one instruction to assemble a welded rose sculpture.</p> <ul style="list-style-type: none"> • Classes Held 8:00a.m.-3:00 p.m. • Lunch is included • All Personal Protective Equipment (including safety glasses, welding jacket, gloves and helmet) loaned by Lincoln Electric • Participants must wear their own steel-toed boots, long sleeved cotton shirts and long pants (no shorts allowed) • Must be 18 yrs or older <p><i>Minimum enrollment numbers must be met in order for Weld School or Seminar & Workshop trainings to be held. Trainings with less than the required minimum enrollment are subject to cancellation or rescheduling at the discretion of the WTTTC Program Manager, Business Manager, or Manager of Technical Services. Classes will be cancelled no less than fourteen (14) working days before the scheduled start day of class and enrollees will be contacted.</i></p> <p><i>Click on the Sections button, next to the Course Description, for Cost and Course dates.</i></p> <p>Weekend with Metal Join welders of all skill levels in a safe, relaxed atmosphere and take advantage of an affordable opportunity to learn the basics of welding. No experience necessary.</p> <ul style="list-style-type: none"> • Instruction covers Safety, Shielded Metal Arc Welding (Stick) and Gas Metal Arc Welding (MIG) • Lincoln Electric swing bag for all attendees • Classes held 8:00a.m.-3:00 p.m. Saturday-Sunday • All Personal Protective Equipment (including safety glasses, welding jacket, gloves and helmet) provided by Lincoln Electric • Participants must wear their own steel-toed boots, long sleeved cotton shirts and long pants (no shorts or capris)

16 WEEK COMPREHENSIVE PROGRAM
Code: COMP
Duration: Sixteen Weeks
Course Fee: \$9,840.00 / Registration Fee: \$125.00

COMP_24_01	1/15/2024	-	5/2/2024
COMP_24_02	3/4/2024	-	6/20/2024
COMP_24_04	7/15/2024	-	10/31/2024
COMP_24_05	8/26/2024	-	12/19/2024

API PIPE
Code: API101
Duration: Six Weeks
Course Fee: \$3,870.00 / Registration Fee: \$125.00

API101_24_01	3/4/2024	-	4/11/2024
API101_24_02	8/19/2024	-	9/26/2024

ASME PIPE
Code: ASME101
Duration: Six Weeks
Course Fee: \$3,870.00 / Registration Fee: \$125.00

ASME101_24_01	3/4/2024	-	4/11/2024
ASME101_24_02	8/19/2024	-	9/26/2024

INTRODUCTION TO WELDING
Code: INTRO101
Duration: Four Days
Course Fee: \$950.00 / Registration Fee: \$50.00

INTRO101_24_02	3/18/2024	-	3/21/2024
INTRO101_24_03	5/20/2024	-	5/23/2024
INTRO101_24_04	8/19/2024	-	8/22/2024
INTRO101_24_05	10/14/2024	-	10/17/2024
INTRO101_24_06	12/9/2024	-	12/12/2024

GAS METAL ARC WELDING
Code: GMAW101
Duration: Four Days
Course Fee: \$950.00 / Registration Fee: \$50.00

GMAW101_24_01	1/22/2024	-	1/25/2024
GMAW101_24_02	3/25/2024	-	3/28/2024
GMAW101_24_03	6/3/2024	-	6/6/2024
GMAW101_24_04	8/5/2024	-	8/8/2024
GMAW101_24_05	11/18/2024	-	11/21/2024

GAS TUNGSTEN ARC WELDING
Code: GTAW101
Duration: Four Days
Course Fee: \$950.00 / Registration Fee: \$50.00

GTAW101_24_01	1/29/2024	-	2/1/2024
GTAW101_24_02	4/1/2024	-	4/4/2024
GTAW101_24_03	5/13/2024	-	5/16/2024
GTAW101_24_04	6/24/2024	-	6/27/2024
GTAW101_24_05	8/26/2024	-	8/29/2024
GTAW101_24_06	10/28/2024	-	10/31/2024

INTRODUCTION TO BASIC PLATE & SHEET METAL ARC WELDING
Code: SMAW101
Duration: Four Days
Course Fee: \$950.00 / Registration Fee: \$50.00

SMAW101_24_01	2/19/2024	-	2/22/2024
SMAW101_24_02	7/8/2024	-	7/11/2024
SMAW101_24_03	11/11/2024	-	11/14/2024

MAINTENANCE ALLOYS
Code: ALLOY101
Duration: Four Days
Course Fee: \$1000.00 / Registration Fee: \$50.00

ALLOY101_24_01	5/6/2024	-	5/9/2024
ALLOY101_24_02	10/7/2024	-	10/10/2024

FLUX CORED ARC WELDING
Code: FCAW101
Duration: Four Days
Course Fee: \$950.00 / Registration Fee: \$50.00

FCAW101_24_01	2/26/2024	-	2/29/2024
FCAW101_24_02	6/17/2024	-	6/20/2024
FCAW101_24_03	11/18/2024	-	11/21/2024

BASIC MOTORSPORTS
Code: MTRS301
Duration: Five Days
Course Fee: \$1,440.00 / Registration Fee: \$100.00

MTRS301_24_02	3/4/2024	-	3/7/2024
MTRS301_24_03	7/8/2024	-	7/11/2024
MTRS301_24_04	11/4/2024	-	11/7/2024

ADVANCED MOTORSPORTS
Code: MTRS302
Duration: Five Days
Course Fee: \$1,440.00 / Registration Fee: \$100.00

MTRS302_24_02	3/11/2024	-	3/14/2024
MTRS302_24_03	7/15/2024	-	7/18/2024
MTRS302_24_04	11/11/2024	-	11/14/2024

WEEKEND WITH METAL
Code: METAL101
Duration: Two Days (Sat/Sun)
Course Fee: \$350.00 / Registration Fee: \$50.00

METAL101_24_01	4/27/2024	-	4/28/2024
METAL101_24_02	7/20/2024	-	7/21/2024
METAL101_24_03	9/21/2024	-	9/22/2024
METAL101_24_04	11/2/2024	-	11/3/2024

WEEKEND GAS TUNGSTEN ARC WELDING
Code: GTAW104
Duration: Two Days (Sat/Sun)
Course Fee: \$350.00 / Registration Fee: \$50.00

GTAW104_24_01	6/29/2024	-	6/30/2024
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COMP - 16 Week Comprehensive Program

Course Description

480 Clock Hours, 48 CEUs

Designed to instruct welders in arc welding safety and all of the common welding processes. The course lasts 16 weeks and involves more than 400 hours of hands-on instruction. Ready-Pak® PPE gear is included and provided on the first day of class.

Course Content

- » Blueprint Reading & Safety Training (1 week)
- » Cutting, Heat Treating, Bronzing, and Oxyfuel (1 week)
- » Gas Metal Arc Welding (3 Weeks)
- » Shielded Metal Arc Welding (5 Weeks)
- » Flux-Cored Arc Welding (2 Weeks)
- » Gas Tungsten Arc Welding (3 Weeks)
- » Certification Testing (1 week)

Duration: 16 Weeks

Time: Mon-Thurs. 8:00 a.m. - 4:00 p.m.

Course Fee: \$9,840.00

Registration Fee: \$125.00

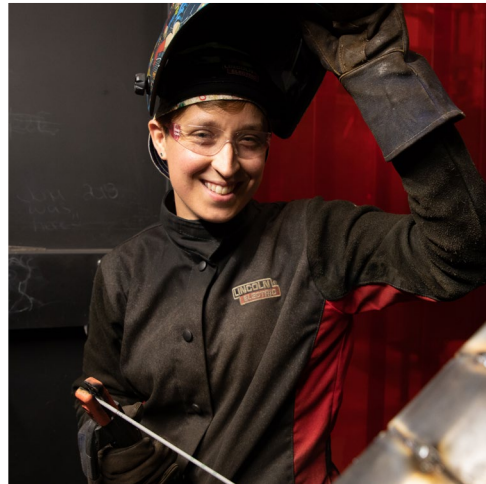
Course Dates:

COMP_24_01 01/15/2024 - 05/02/2024

COMP_24_02 03/04/2024 - 06/20/2024

COMP_24_04 07/15/2024 - 10/31/2024

COMP_24_05 08/26/2024 - 12/19/2024



Personal Protection Equipment (PPE) and Tools Required for Class:

(Welding gear and tools are included with tuition. Student must supply their own steel-toe safety shoes and tools.)

- Ankle-High Steel-Toe Safety Shoes
- Safety Glasses w/ Side Shields
- Welding Jacket
- Welding Gloves
- Welding Cap
- Welding Helmet
- Welper® Pliers
- Channellock® or Vise-Grip® Pliers
- Wire Brush
- Chipping Hammer

Please Note: If a student desires to practice on different types of welds and/or materials other than those offered, material must be provided by student.

API Pipe

Course Description

180 Clock Hours, 18 CEUs

Designed to introduce welders to the Shielded Metal Arc Welding (SMAW) process of welding pipe to meet the API (vertical down) welding code, students are taken from basic pipe welding methods to advanced pipe welding techniques relating to butt joints using cellulosic and low-hydrogen electrodes in accordance with API 1104 code. During advanced instruction, students will work with schedule 40, 12-inch pipe. Lasting 6 weeks, this course provides 180 hours of booth instruction, lecture and practice. Upon completion of this course, students should have developed the skills for a career in the API piping industry.

Prerequisite: Before entering this class, students must have experience in welding and make passing welds on a sample test plate that includes vertical and overhead welds with E6010 and E7018 electrodes.

Duration: 6 Weeks

Time: Mon-Thurs. 8:00 a.m. - 4:00 p.m.

Course Fee: \$3,870.00

Registration Fee: \$125.00

Course Dates:

API101_24_01 03/04/2024 - 04/11/2024

API101_24_02 08/19/2024 - 09/26/2024



Personal Protection Equipment (PPE) and Tools Required for Class:

(Welding gear can be purchased on site. Student must supply their own steel-toe safety shoes and tools.)

- Ankle-High Steel-Toe Safety Shoes
- Safety Glasses w/ Side Shields
- Welding Jacket
- Welding Gloves
- Welding Cap
- Welding Helmet
- Welper® Pliers
- Channellock® or Vise-Grip® Pliers
- Wire Brush
- Chipping Hammer

Please Note: If a student desires to practice on different types of welds and/or materials other than those offered, material must be provided by student.

ASME Pipe

Course Description

180 Clock Hours, 18 CEUs

Designed to introduce welders to the Shielded Metal Arc Welding (SMAW) process of welding pipe to meet the ASME (vertical up) welding code, students are taken from basic pipe welding methods to advanced pipe welding techniques relating to the welding of the root & hot pass done with the Gas Tungsten Arc Welding (GTAW) process. Fill & cap passes may be done, based on the student's ability, with low-hydrogen stick electrode. During advanced instruction, students will be working with schedule 40 and 80, 6-inch pipe and 2-inch schedule 80. Lasting 6 weeks, this course provides 180 hours of booth instruction, lecture and practice. Upon completion of this course, students should have developed skills for careers in the pressure vessel piping fields.

Prerequisite: Before entering this class, students must have experience in welding and make passing welds on a sample test plate that includes vertical and overhead welds with E6010 and E7018 electrodes.

Duration: 6 Weeks

Time: Mon-Thurs. 8:00 a.m. - 4:00 p.m.

Course Fee: \$3,870.00

Registration Fee: \$125.00

Course Dates:

ASME101_24_01 03/04/2024 - 04/11/2024

ASME101_24_02 08/19/2024 - 09/26/2024



Personal Protection Equipment (PPE) and Tools Required for Class:

(Welding gear can be purchased on site. Student must supply their own steel-toe safety shoes and tools.)

- Ankle-High Steel-Toe Safety Shoes
- Safety Glasses w/ Side Shields
- Welding Jacket
- Welding Gloves
- Welding Cap
- Welding Helmet
- Welper® Pliers
- Channellock® or Vise-Grip® Pliers
- Wire Brush
- Chipping Hammer

Please Note: If a student desires to practice on different types of welds and/or materials other than those offered, material must be provided by student.

INTRO101 - Introduction to Welding

Course Description

30 Clock Hours, 3.0 CEUs

Designed to instruct welders in welding safety and welding techniques utilizing various processes like Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW) and plasma cutting.

Duration: 4 Days

Time: Mon-Thurs. 8:00 a.m. - 4:00 p.m.

Course Fee: \$950.00

Registration Fee: \$50.00

Course Dates:

INTRO101_24_02 03/18/2024 - 03/21/2024

INTRO101_24_03 05/20/2024 - 05/23/2024

INTRO101_24_04 08/19/2024 - 08/22/2024

INTRO101_24_05 10/14/2024 - 10/17/2024

INTRO101_24_06 12/9/2024 - 12/12/2024

Course Content

Day 1

Introduction to welding safety and the Fill Freeze and Fast Fill groups of electrodes. Plasma Cutting.

Day 2

Basic MIG lecture. Weld short arc, globular, spray, and pulse spray.

Day 3

SMAW lecture. Weld with 6013 flat and horizontal sheet metal. Weld with 7024-1 flat and horizontal 3/8 inch to 1/2 inch plate, single pass and three pass.

Day 4

Basic TIG lecture. Weld on steel and stainless steel.



Personal Protection Equipment (PPE) and Tools Required for Class:

(Welding gear can be purchased on site. Student must supply their own steel-toe safety shoes and tools.)

- Ankle-High Steel-Toe Safety Shoes
- Safety Glasses w/ Side Shields
- Welding Jacket
- Welding Gloves
- Welding Cap
- Welding Helmet
- Welper® Pliers
- Channellock® or Vise-Grip® Pliers
- Wire Brush
- Chipping Hammer

Please Note: If a student desires to practice on different types of welds and/or materials other than those offered, material must be provided by student.

GMAW101 - Gas Metal Arc Welding - Semiautomatic

Course Description

30 Clock Hours, 3.0 CEUs

Designed to instruct welders in welding safety and the Gas Metal Arc Welding process (GMAW/MIG). The course lasts one week, involving approximately 30 hours of booth instruction, lecture and practice.

Duration: 4 Days

Time: Mon-Thurs. 8:00 a.m. - 4:00 p.m.

Course Fee: \$950.00

Registration Fee: \$50.00

Course Dates:

GMAW101_24_01 01/22/2024 - 01/25/2024

GMAW101_24_02 03/25/2024 - 03/28/2024

GMAW101_24_03 06/03/2024 - 06/06/2024

GMAW101_24_04 08/05/2024 - 08/08/2024

GMAW101_24_05 11/18/2024 - 11/21/2024



Personal Protection Equipment (PPE) and Tools Required for Class:

(Welding gear can be purchased on site. Student must supply their own steel-toe safety shoes and tools.)

- Ankle-High Steel-Toe Safety Shoes
- Safety Glasses w/ Side Shields
- Welding Jacket
- Welding Gloves
- Welding Cap
- Welding Helmet
- Welper® Pliers
- Channellock® or Vise-Grip® Pliers
- Wire Brush
- Chipping Hammer

Please Note: If a student desires to practice on different types of welds and/or materials other than those offered, material must be provided by student.

GTAW101 - Gas Tungsten Arc Welding

Course Description

30 Clock Hours, 3.0 CEUs

Designed to instruct welders in welding safety and the Gas Tungsten Arc Welding process (GTAW/TIG). The course lasts one week, involving approximately 30 hours of booth instruction, lecture and practice. Welders will learn GTAW/TIG welding focused on mild steel, aluminum, and stainless steel.

Duration: 4 Days

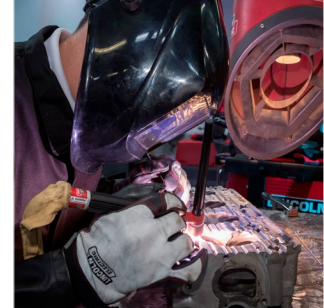
Time: Mon-Thurs. 8:00 a.m. - 4:00 p.m.

Course Fee: \$950.00

Registration Fee: \$50.00

Course Dates:

GTAW101_24_01	01/29/2024 - 02/01/2024	GTAW101_24_04	06/24/2024 - 6/27/2024
GTAW101_24_02	04/01/2024 - 04/04/2024	GTAW101_24_05	08/26/2024 - 8/29/2024
GTAW101_24_03	05/13/2024 - 05/16/2024	GTAW101_24_06	10/28/2024 - 10/31/2024



SMAW101 - Introduction to Basic Plate & Sheet Metal Arc Welding

Course Description

30 Clock Hours, 3.0 CEUs

Designed to instruct welders in welding safety with an overview of basic weld symbols, SMAW electrode types and selection, classification of electrodes, power sources and polarity. There will be discussions on advantages and limitations of electrodes as well as different welding techniques. Welding will take place on various mild steel thicknesses in all positions. Welders will learn GTAW/TIG welding focused on mild steel, aluminum, and stainless steel.

Duration: 4 Days

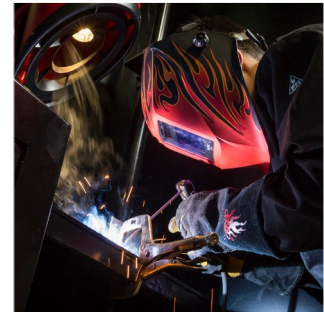
Time: Mon-Thurs. 8:00 a.m. - 4:00 p.m.

Course Fee: \$950.00

Registration Fee: \$50.00

Course Dates:

SMAW101_24_01	02/19/2024 - 02/22/2024
SMAW101_24_02	07/08/2024 - 7/11/2024
SMAW101_24_03	11/11/2024 - 11/14/2024



Personal Protection Equipment (PPE) and Tools Required for Class:

(Welding gear can be purchased on site. Student must supply their own steel-toe safety shoes and tools.)

- Ankle-High Steel-Toe Safety Shoes
- Safety Glasses w/ Side Shields
- Welding Jacket
- Welding Gloves
- Welding Cap
- Welding Helmet
- Welper® Pliers
- Channellock® or Vise-Grip® Pliers
- Wire Brush
- Chipping Hammer

Please Note: If a student desires to practice on different types of welds and/or materials other than those offered, material must be provided by student.

ALLOY101 - Maintenance Alloys

Course Description

30 Clock Hours, 3.0 CEUs

Designed to instruct welders in torch safety, torch welding, brazing and cutting, carbon arc gouging and repair, metallurgy, SMAW-stainless steel, welding dissimilar metals, cast iron repair, and hardfacing.

Requirements:

Attendees should have prior SMAW welding experience before enrolling in this course. Participants must provide their steel-toe boots, long sleeved cotton shirts and long pants (no shorts or capris permitted).

Course Content

- » Torch safety
- » Torch welding
- » Brazing and cutting
- » Carbon arc gauging and repair
- » Plasma cutting
- » Metallurgy
- » SMAW- stainless steel
- » Welding dissimilar metals
- » Cast iron repair
- » Hard facing

Duration: 4 Days

Time: Mon-Thurs. 8:00 a.m. - 4:00 p.m.

Course Fee: \$1000.00

Registration Fee: \$50.00

Course Dates:

ALLOY101_24_01 05/06/2024 - 05/09/2024

ALLOY101_24_02 10/07/2024 - 10/10/2024



Personal Protection Equipment (PPE) and Tools Required for Class:

(Welding gear can be purchased on site. Student must supply their own steel-toe safety shoes and tools.)

- Ankle-High Steel-Toe Safety Shoes
- Safety Glasses w/ Side Shields
- Welding Jacket
- Welding Gloves
- Welding Cap
- Welding Helmet
- Welper® Pliers
- Channellock® or Vise-Grip® Pliers
- Wire Brush
- Chipping Hammer

Please Note: If a student desires to practice on different types of welds and/or materials other than those offered, material must be provided by student.

FCAW101 - Flux Cored Arc Welding

Course Description

30 Clock Hours, 3.0 CEUs

Designed to instruct welders in welding safety and the Flux-Cored Arc Welding process (FCAW) for both self-shielded (Innershield®) and gas-shielded (Outershield® and UltraCore®) methods.

Duration: 4 Days

Time: Mon-Thurs. 8:00 a.m. - 4:00 p.m.

Course Fee: \$950.00

Registration Fee: \$50.00

Course Dates:

FCAW101_24_01 02/26/2024 - 2/29/2024

FCAW101_24_02 06/17/2024 - 6/20/2024

FCAW101_24_03 11/18/2024 - 11/21/2024



Personal Protection Equipment (PPE) and Tools Required for Class:

(Welding gear can be purchased on site. Student must supply their own steel-toe safety shoes and tools.)

- Ankle-High Steel-Toe Safety Shoes
- Safety Glasses w/ Side Shields
- Welding Jacket
- Welding Gloves
- Welding Cap
- Welding Helmet
- Welper® Pliers
- Channellock® or Vise-Grip® Pliers
- Wire Brush
- Chipping Hammer

Please Note: If a student desires to practice on different types of welds and/or materials other than those offered, material must be provided by student.

MTRS301 - Motorsports – Basic Materials Program

It is highly recommended that students have prior GMAW and GTAW experience prior to enrolling in this course.

What Is It?

34 Clock Hours, 3.4 CEUs

Five-day technical program limited to 18 attendees that is approximately 30% classroom and 70% hands-on.

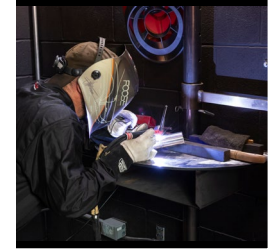
The primary focus of this course is on basic motorsports materials and applications (GMAW, GTAW, Oxyfuel, and Plasma Cutting) including aluminum and stainless steel. In addition to these concepts, new technologies will be introduced, which include Waveform Control Technology® and Precision TIG® technology.

Purpose

To enhance your knowledge of current thinking in arc welding safety, processes, instruction, concepts, equipment and consumables, as well as your welding skills.

Course Content

- » Day 1 - Safety and Gas Tungsten Arc Welding (TIG)
- » Day 2 - Gas Metal Arc Welding (MIG)
- » Day 3 - Alloy (Metallurgy, Identification, Classification, Preheating)
- » Day 4 - Alloy (Aluminum and Stainless Steel)
- » Day 5 - Oxyfuel, Plasma Cutting, Open Lab, Plant Tour, and TIG Kit with Gas Lens Parts.



Duration: 5 Days

Time: Mon-Thurs. 8:00 a.m. - 4:00 p.m.

Fri. 8:00 a.m. - Noon

Course Fee: \$1,440.00

Registration Fee: \$100.00

Course Dates:

MTRS301_24_02 03/04/2024 - 03/07/2024

MTRS301_24_03 07/08/2024 - 07/11/2024

MTRS301_24_04 11/04/2024 - 11/07/2024



MOTORSPORTS

Personal Protection Equipment (PPE) and Tools Required for Class:

(Welding gear can be purchased on site. Student must supply their own steel-toe safety shoes and tools.)

- Ankle-High Steel-Toe Safety Shoes
- Safety Glasses w/ Side Shields
- Welding Jacket
- Welding Gloves
- Welding Cap
- Welding Helmet
- Welper® Pliers
- Channellock® or Vise-Grip® Pliers
- Wire Brush
- Chipping Hammer

Please Note: If a student desires to practice on different types of welds and/or materials other than those offered, material must be provided by student.

MTRS302 - Motorsports – Advanced Materials Program

It is highly recommended that students attend the Motorsports Basic Materials Program course (MTRS301) and have GTAW experience prior to enrolling in this course.

What Is It?

34 Clock Hours, 3.4 CEUs

Five day technical program limited to 18 attendees that is approximately 30% classroom and 70% hands-on.

The primary focus is on advanced motorsports materials and applications utilizing the Gas Tungsten Arc Welding (GTAW) process including materials like chrome-moly, Inconel[®]*, magnesium and titanium. In addition to these concepts, new technologies will be introduced, which include Waveform Control Technology[®] and Precision TIG[®] technology.

Purpose

To enhance your knowledge of current thinking in arc welding safety, processes, instruction, concepts, equipment and consumables as well as your welding skills.

Course Content

- » Day 1 - Safety, GTAW (TIG) Chrome-moly
- » Day 2 - GTAW (TIG) Titanium
- » Day 3 - GTAW (TIG) Inconel
- » Day 4 - GTAW (TIG) Magnesium
- » Day 5 - New Products, Open Lab and Plant Tour

Duration: 5 Days

Time: Mon-Thurs. 8:00 a.m. - 4:00 p.m.
Fri. 8:00 a.m. - Noon

Course Fee: \$1,440.00

Registration Fee: \$100.00

Course Dates:

MTRS302_23_02 03/11/2024 - 03/14/2024

MTRS302_23_03 07/15/2024 - 07/18/2024

MTRS302_23_04 11/11/2024 - 11/14/2024



Personal Protection Equipment (PPE) and Tools Required for Class:

(Welding gear can be purchased on site. Student must supply their own steel-toe safety shoes and tools.)

- Ankle-High Steel-Toe Safety Shoes
- Safety Glasses w/ Side Shields
- Welding Jacket
- Welding Gloves
- Welding Cap
- Welding Helmet
- Welper[®] Pliers
- Channellock[®] or Vise-Grip[®] Pliers
- Wire Brush
- Chipping Hammer

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Please Note: If a student desires to practice on different types of welds and/or materials other than those offered, material must be provided by student.

METAL101 - Weekend With Metal

Duration: 2 Days (Sat/Sun)
Time: 8:00 a.m. - 3:00 p.m.
Course Fee: \$350.00
Registration Fee: \$50.00

Course Description

12 Clock Hours

Join welders of all skill levels in a safe, relaxed atmosphere and take advantage of an affordable opportunity to learn the basics of welding. Instruction covers Safety, Shielded Metal Arc Welding (Stick) and Gas Metal Arc Welding (MIG).

Course Dates:

METAL101_24_01 04/27/2024 - 04/28/2024
 METAL101_24_02 07/20/2024 - 07/21/2024
 METAL101_24_03 09/21/2024 - 09/22/2024

WIWW201 - Women in Welding Weekend

Duration: 2 Days (Sat/Sun)
Time: 8:00 a.m. - 3:00 p.m.
Course Fee: \$350.00
Registration Fee: \$50.00

Course Description

12 Clock Hours

A two-day introduction to welding created just for women. Join women welders of all skill levels to learn the basics of Safety, Shielded Metal Arc Welding (Stick) and Gas Metal Arc Welding (MIG) with a female welding instructor.

Course Dates:

WIWW201_24_01 11/09/2024 - 11/10/2024

GTAW104 - Weekend Gas Tungsten Arc Welding

Course Description

12 Clock Hours

Designed to instruct welders in GTAW (TIG) welding safety and basic GTAW process fundamentals. Welding will be taught on mild steel and aluminum. Welding consists of edge, corner, lap and fillet welds. Welding is limited to thin material, which does not include pipe, open roots or thick plate.

Duration: 2 Days (Sat/Sun)
Time: 8:00 a.m. - 3:00 p.m.
Course Fee: \$350.00
Registration Fee: \$50.00

Course Dates:

GTAW104_24_01 06/29/2024 - 06/30/2024



Requirements:

No experience necessary. All Personal Protective Equipment (including safety glasses, welding jacket, gloves and helmet) will be provided by Lincoln Electric for use during the class. Participants must wear their own steel-toed boots, long sleeved cotton shirts and long pants (no shorts or capris permitted). Participants must be 18 years old or older.

AWS Accredited Testing Facility (ATF) Welder or Welding Operator Qualification Testing



Qualification Testing

We are proud to offer Qualification Testing through the Lincoln Welding Technology and Training Center. This testing is to evaluate the skill set of the test applicant. No weld training will be provided by the testing facility. All test applicants should arrive ready to test. The cost of the testing includes all materials required, the use of equipment as needed, along with some practice material.

Certification Testing

As an Accredited Testing Facility, we are authorized to perform welder or welding operator testing and offer AWS Certifications which are nationally recognized through the AWS National Registered Database. These tests are identical to the Qualifications tests listed above, but allow the test applicant to be entered into the AWS Database as a Certified Welder. There is an additional \$85 fee for AWS Certifications.

Tests can be conducted using any of the following:

- » SMAW
- » GMAW
- » FCAW
- » GTAW
- » SAW

Testing and certifications can also be tested in accordance with any globally recognized welding codes:

- » AWS D1.1 – Structural Steel
- » AWS D1.2 – Aluminum
- » AWS D1.3 – Sheet Steel
- » AWS D1.5 – Bridge
- » AWS D1.6 – Stainless
- » AWS D14.1 – Crane Welding
- » ASME Sec IX – Pressure Vessel
- » API 1104 – Pipelines
- » CWB – Canadian Welding Bureau
- » ISO International Standards
- » And More

3/8" AWS Limited Thickness Testing
Qualification: \$425.00

1.00" AWS Unlimited Thickness Testing
Qualification: \$475.00

GMAW or GTAW Fillet Weld Testing on 10-18 gauge
Qualification: \$275.00

Pipe Welding Test
Qualification: \$525.00

Training/Certification/Qualification

The Lincoln Electric Welding Technology and Training Center can meet your needs for customized training and/or certification at Lincoln Electric Corporate Headquarters in Cleveland, Ohio or at your particular location.

Requirements: Please review the requirements listed in the 2024 Lincoln Electric Welding Technology and Training Center Course Catalog or on the registration site.

Lincoln Electric Welding School students will receive testing discounts.

Contact Our Testing Facility at:
+1 (216) 383-4865 or email us at:
ATF@LincolnElectric.com

Personal Protection Equipment (PPE) and Tools Required for Testing:

(Welding gear can be purchased on site. Student must supply their own steel-toe safety shoes and tools.)

- Ankle-High Steel-Toe Safety Shoes
- Safety Glasses w/ Side Shields
- Welding Jacket
- Welding Gloves
- Welding Cap
- Welding Helmet
- Welper® Pliers
- Channellock® or Vise-Grip® Pliers
- Wire Brush
- Chipping Hammer

Overview of Technical Training Services

Lincoln Electric has a long history of providing customers with expert training on our various products, as well as general arc welding fundamentals. Our technical trainers have many years of experience in the welding industry and a very comprehensive knowledge of Lincoln Electric products and welding processes. They also have backgrounds in technical sales and/or technical support.

Lincoln Electric's Technical Training Services group offers a variety of seminars and workshops, ranging from basic welding fundamentals training to high level programs on welding design issues and advanced Power Wave® solutions. The team conducts various "train the trainer" seminars for welding educators. We also provide training for our authorized distributors who are at all levels of experience. Programs are held at both our headquarters in Cleveland, Ohio and in the field. Students spend about 50% classroom time and 50% hands-on lab time. Also included are tours of Lincoln Electric's manufacturing and R&D facilities.

The Technical Training Services group also produces state-of-the-art training curriculum and materials for teaching arc welding. Many are available on a "no charge" basis for welding instructors.

TECHNICAL TRAINERS



Ben Bradbury



Travis Edmonds



Kelsey Garrett



James Mosman



Alex Tocco

WELDING PROCESS CONSULTANTS



Padraic Bean



Jason Hart



Branden Muehlbrandt



Joe Ochnser

Blodgett's Seminars on the Design of Welded Connections

For over 60 years, Lincoln Electric has hosted design seminars that have provided the attendees with ideas of how to make welded products more dependable, lower in cost, and welded in a safe manner. Thousands of engineers have attended these seminars, made popular by Dr. Omer W. Blodgett after whom the seminars are named. Two application-focused design seminars are offered.



TTS401 - Design of Welded Connections: Steel Structures

36 Clock Hours, 3.6 CEUs

This seminar is for individuals who design steel structures, such as buildings, bridges and towers. Attendees typically include structural engineers and others associated with welded structures, such as fabricators, erectors and inspectors. AISC 360 and AWS D1.1 standards are used to support the engineering principles presented in the course. Connections subject to static, cyclic and seismic loading are reviewed. Specific topics include the following :

- » Weld Process Basics
- » Basics of Welded Connections
- » Details of Welded Connections
- » Principles of Connection Design
- » Welded Connections for Cyclic Service
- » Welded Connections for Seismic Service
- » How to Achieve Ductile Behavior
- » Distortion: Causes and Cures
- » Welding Metallurgy: Why Connections Crack and Tear
- » "Listen to the Steel": (Learning From Failures)
- » Fracture Mechanics: Theory and Practical Applications
- » Practical Solutions to Common Construction Challenges
- » Cost Reduction Ideas
- » Welding Demonstration
- » Plant Tour

Duration: 4.5 Days

Time: Mon.-Thurs. 8:00 a.m. - 5:00 p.m.
Fri. 8:00 a.m. - Noon

Course Fee: \$1,440.00

Registration Fee: \$100.00

Steel Structure Course Dates:

TTS401_24_01 07/29/2024 - 08/02/2024

TTS402 - Design of Welded Connections: Steel Weldments

36 Clock Hours, 3.6 CEUs

This seminar is for individuals who design equipment used for construction, agriculture, material handling and other general purposes. Attendees typically include design engineers and those associated with the production of steel weldments, such as manufacturing and welding engineers. AWS D14 standards are used to support the engineering principles presented in the course. Connections subject to static, cyclic and shock loading are reviewed, with concentrated emphasis on cyclic loading (fatigue). Specific topics include the following:

- » Weld Process Basics
- » Basics of Welded Connections
- » Details of Welded Connections
- » Principles of Connection Design
- » Theory of Fatigue of Welded Connections
- » Design of Fatigue Resistant Welded Connections
- » Designing for Shock Loading
- » Designing for Torsional Loading
- » Distortion: Causes and Cures
- » Welding Metallurgy: Why Connections Crack and Tear
- » "Listen to the Steel": (Learning From Failures)
- » Cost Reduction Ideas
- » Welding Demonstration
- » Plant Tour

Duration: 4.5 Days

Time: Mon.-Thurs. 8:00 a.m. - 5:00 p.m.
Fri. 8:00 a.m. - Noon

Course Fee: \$1,440.00

Registration Fee: \$100.00

Steel Weldment Course Dates:

TTS402_24_01 04/29/2024 - 05/03/2024

TTS402_24_02 10/21/2024 - 10/25/2024



BTB301 - Beyond The Booth Instructor Course

Who Is It For?

31 Clock Hours, 3.1 CEUs

This course is designed for new welding instructors entering the classroom for the first time. Current welding instructors will also benefit from learning new instructional techniques and ways to engage students at a higher level.

What Is It?

A five-day course limited to 48 participants that will be taught by both current welding instructors and guest instructors.

This course will cover curriculum design, lesson plan development, lab management, presentation skills, classroom management and more. The course is intended for new welding instructors at both the high school and community college levels. Participants will leave this workshop with the tools for a successful year teaching welding education.

What's Included?

- » Certificate of Completion
- » All welding consumables and coupons
- » Library of Lincoln Electric resources
- » Morning snack and lunch daily
- » Group dinner one night
- » Plant tours



Duration: 5 Days

Time: Mon.-Thurs. 8:00 a.m. - 4:00 p.m.
Fri. 8:00 a.m. - Noon

Course Fee: \$1,440.00

Registration Fee: \$100.00

Course Dates:

BTB301_24_01 06/03/2024 - 06/07/2024

Personal Protection Equipment (PPE) and Tools Required for Class:
Student must supply their own steel-toe safety shoes and tools.

LEEPS™/LEEPStart™ Programs

What are the LEEPS™ and LEEPStart™ Programs?

Lincoln Electric Education Partner Schools - or LEEPS™ - is Lincoln Electric's Welding Certification Program in partnership with the National Coalition of Certification Centers (NC3). Designed for institutions looking to offer a full slate of stackable welding certifications focused on career preparation, the LEEPS™/LEEPStart™ program combines a comprehensive set of instructional tools, resources, and the support needed to meet today's welding challenges. For more information please visit our LEEPS™ page. <https://www.lincolnelectric.com/en/Education/Training-Programs/Educators/LEEPS-Program>



Requirements

- » Sign up for Lincoln Electric's Education Portal
- » Complete Lincoln Electric's Trainer-the-Trainer Course
- » *Teach with VRTEX™ virtual welding simulators
- » Register as an NC3 Start or Leadership School (depending on program)
- » *Equip school with 80% Lincoln Electric welding equipment

*not required for LEEPStart™ program

For further information, please reach out to leeps@lincolnelectric.com



NC3 Train the Trainer Courses

Lincoln Electric is a host site for a variety of NC3 Train-the-Trainer courses. Additional information and registration can be found on NC3's website. <https://www.nc3.net/training/>



Lincoln Electric

CUSTOM WELDING CONSULTING SERVICES FOR INDUSTRIAL ORGANIZATIONS

Codes and standards govern welding processes and metal fabrication to ensure quality, consistency and safety. Do you understand the complexities? Lincoln Electric offers a broad portfolio of custom consulting services to provide guidance to help meet or exceed these standards:



Technical Training For Welders

Covers critical welding techniques, best practices and tips to ensure your welders are qualified to perform their required work. Plus, we can provide a general equipment overview. It can take place on-site at your facility or on our campus at the Welding Technology and Training Center.



Code Consulting

Guidance on a path forward regarding welder procedure qualifications records, welding procedure specifications, general interpretation and specific application to your manufacturing scenario following AWS D1.1 standards.



Procedure Development Execution Plans

For optimal results, welding planning is crucial. We can review and create fully documented plans to comply with and enact your customer code or specification. Includes bill of materials, list of welds, joint types and preparation.



Engineered Procedures

We have a team assigned to develop and achieve procedures that meet your standard or code requirements and help ensure that the required stages of work are accomplished productively without generating costly exceptions.



Cold Eye Reviews

We'll provide welding engineers with global experience on-site to review your current welding operations, provide guidance, produce action plans, or support large change management initiatives.

Training is available at:

The Lincoln Electric Welding Technology and Training Center in Cleveland, OH *-OR-* On-site at your facility or job site.

To request a consultation, *contact your Technical Sales Representative today.*

CUSTOMER ASSISTANCE POLICY The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer; but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

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Robotic Automation Training

Course Offerings/Prerequisites

All courses are conducted in a lecture-lab format. Since seating capacity is limited, early registration is advised. Students attending any Advanced Robotic Programming Course are expected to have successfully completed the Basic Robotic Programming Course.

If you are attending our Robotic Service Shop Courses, we suggest that you take the Entry Level Standard Course Exam found at the Lincoln Electric website. This exam will evaluate your electrical skill level necessary to pass the course. The Standard Level Test can be found on the Service School page: <https://www.lincolnelectric.com/en/Education/Training-Programs/Corporate/Robotic-Automation-Training>

Please contact the Lincoln Electric Automation School at 1-888-935-3878 for all questions and registrations.

A confirmation email will be sent once registration is complete. Please note that classes fill up quickly. Register at least 6 weeks in advance of the course start date in order to assure the best chance of getting into the class of your choice. Courses will be held if three or more students enroll. All cancellations must be done via email at least 10 days prior to the class start date. Any cancellations with less than one week notice from the course start date will be charged the course fee.

AUTOMATION SCHOOL COURSES

Course Name	Date	Training Location	Class Days	Course Fee	Prerequisite
Basic Robotic Programming	Weekly (Non-Holiday)	Cleveland, OH	Monday - Friday (5 day course)	\$2,590.00	None
Intermediate Robotic Programming	1/22/2024 - 1/26/2024 3/4/2024 - 3/8/2024 5/13/2024 - 5/17/2024 7/22/2024 - 7/26/2024 9/23/2024 - 9/27/2024 12/16/2024 - 12/20/2024	Cleveland, OH	Monday - Friday (5 day course)	\$3,000.00	None
Advanced Robotic Programming⁽¹⁾	2/12/2024 - 2/16/2024 4/22/2024 - 4/26/2024 6/10/2024 - 6/14/2024 8/19/2024 - 8/23/2024 11/4/2024 - 11/8/2024	Cleveland, OH	Monday - Friday (5 day course)	\$3,500.00	Basic Intermediate
Robotic Service Training⁽¹⁾	2/5/2024 - 2/9/2024 4/15/2024 - 4/19/2024 8/12/2024 - 8/16/2024	Cleveland, OH	Monday - Friday (5 day course)	\$3,500.00	Basic Intermediate

INSTRUCTORS



Joe Medves



Brandon Kula

Notes:

» All classes end by Noon Friday.

⁽¹⁾ Cancellations made within two weeks of the class start date will not be refunded.

Basic Robotic Programming

Course Duration

The frequency of the course is weekly, Monday through Friday.

Robotic Programming Training Course Prerequisites

The Robotic Programming Training Course is conducted on a combination lecture-laboratory basis. Typically, students are grouped (2) per robot and work as a team in performing the hands-on exercises. The course is intensive. Students attending are expected to have some experience in one or more of the following: Welding, Electrical Welding, Electrical, Computer or CNC processing.

Welding, Electrical, Computer, C.N.C

Prior robot programming experience is a plus. Assignments are made which require some evening study. The proper selection of the employees to be trained and their interest in being trained are critical success factors in any robot installation.

Students should have experience in GMAW and welding processes. The basic robot programming class is geared towards programmers responsible for maintaining their systems.

Course Objectives

- » Safety precautions while programming and operating the robot system
- » Fundamentals of teach pendant and arc tool programming language
- » Structured programming language techniques and edit commands
- » Instructional commands and menu structure
- » Operator controls and indicators on the teach pendant and operator panel
- » Correct positioning of the robot using the teach pendant and various motion types
- » Welding program structure and operation including straight line, circles, and weaving fundamentals
- » Proper editing procedures and program commands and functions
- » Basic error recovery
- » Torch and wrist alignment checks
- » How to set up a Tool Center Point
- » Home program, Zero program
- » Backing up programs to a memory card
- » Setting up a jog frame
- » Wait and timer instructions
- » Program copy, delete, comment and write protect
- » Torch cleaning program (option)
- » Password protect (option)
- » Turntable (option)



Duration: 5 Days

Course Fee: \$2,590.00

Course Dates:

Weekly (Non-Holiday)

01/08/2024	08/05/2024
01/15/2024	08/26/2024
01/29/2024	09/09/2024
02/19/2024	09/16/2024
02/26/2024	09/30/2024
03/11/2024	10/07/2024
03/18/2024	10/14/2024
04/01/2024	10/21/2024
04/08/2024	10/28/2024
04/29/2024	11/11/2024
05/06/2024	11/18/2024
05/20/2024	12/02/2024
06/03/2024	12/09/2024
06/17/2024	
06/24/2024	
07/08/2024	
07/15/2024	
07/29/2024	

Any Questions?

Contact our Automation School Coordinator at: (888) 935-3878

Intermediate Robotic Programming

Course Duration

The duration is 5 days.

The frequency of course offering is 6 times per year.

Course Description

A 5-day training program that covers intermediate tasks and procedures that an operator, technician, engineer or programmer needs to take full advantage of the multiple capabilities of a Lincoln Electric/Fanuc® Robotic Welding System.

Course Prerequisites

The person attending must be proficient in basic programming techniques.

Course Objectives

- » Use and understand JPOS and LPOS commands
- » Use PR's to make circles
- » Use PR's for math commands
- » Set up and utilize the Teach Pendant Hot Keys
- » Touch Sensing with wire or laser
- » Use Through the Arc Seam Tracking (TAST)
- » Full controller memory backup and restore
- » Understand the usage of Skip/label commands
- » Ramping features while welding
- » Use logic instructions such as Registers, Position Registers, Jump-label, If, Call, and Offset to simplify programming parts with multiple, similar weld joints
- » Set up and use Checkpoint®
- » Power Wave® Manager



Duration: 5 Days

Course Fee: \$2,990.00

Course Dates:

01/22/2024 - 01/26/2024

03/04/2024 - 03/08/2024

05/13/2024 - 05/17/2024

07/22/2024 - 07/26/2024

09/23/2024 - 09/27/2024

12/16/2024 - 12/20/2024

Any Questions?

Contact our Automation School Coordinator at: (888) 935-3878

Note: Cancellations made within two weeks of the class start date will not be refunded.

Advanced Robotic Programming



Course Duration

The duration is 5 days.

The frequency of course offering is 6 times per year.

Course Description

A 5-day training program that covers advanced tasks and procedures that an operator, technician, engineer or programmer needs to take full advantage of the multiple capabilities of a Lincoln Electric/Fanuc® Robotic Welding System.

Course Prerequisites

The person attending must have completed the Lincoln Electric Automation Basic and/or Intermediate Robotic Programming Course.

Course Objectives

- » Edit programs while another is running
- » Make temporary adjustments to weld points to compensate for batch runs
- » Make on-the-fly changes to weld procedures
- » Copy/Shift programs to new locations to reduce programming time.
- » Add explanatory text to programs including custom alarm messages
- » Full controller memory backup and restore
- » Use tool offset utility to minimize programming when changing to new style of torch
- » Use Find, Replace, Copy and Paste commands
- » Setup the Reference Position Utility to establish a safe position for the robot
- » Change weld procedures in the middle of weld
- » Monitor weld command and feedback signals
- » Use Test Cycle to speed up the programming testing process
- » Use logic instructions to simplify programming of parts with multiple, similar weld joints
- » Setup/incorporate a User Frame into programming
- » Fast Start
- » APPLIED ROBOTIC WELDING:
 - Modes of Metal Transfer
 - Short-Arc Transfer
 - Globular Transfer
 - Axial Spray Transfer
 - Pulsed Spray Metal Transfer
 - Surface Tension Transfer® (STT®)
 - Power Mode
 - RapidArc®

Duration: 5 Days

Course Fee: \$2,990.00

Course Dates:

02/12/2024 - 02/16/2024
 04/22/2024 - 04/26/2024
 06/10/2024 - 06/14/2024
 08/19/2024 - 08/23/2024
 11/4/2024 - 11/8/2024

Any Questions?

Contact our Automation School Coordinator at: (888) 935-3878

Course Objectives, con't.

- Effects of Variables
 - Torch angles
 - Various shielding gases
 - Current density
 - Electrode efficiency
 - Deposition rate
 - Electrode extension and Contact Tip To Work Distance (CTWD)
- Recognition and Recovery from Common Weld Discontinuities
 - Porosity
 - Spatter
 - Undercut
 - Incomplete Fusion/Inadequate Penetration
 - Incorrect weld shape and size
- Basic System Maintenance

Note: Cancellations made within two weeks of the class start date will not be refunded.

Robotic Service Training

Course Duration

The duration is 5 days.

Course Description

An intensive training program covering schematic level theory, disassembly and reassembly, as well as electrical troubleshooting on a Fanuc® robot and controller.

This course is intended for persons who must perform electrical and mechanical maintenance and troubleshooting as well as performing preventative maintenance.

Prerequisites

Students should have previous training with electrical/electronics, previous training/or experience in related field involving mechanical disassembly, repair and assembly. The person attending must have completed the Lincoln Electric Automation Basic Robotic Programming Course.

Course Objectives

- » Registration and Welcome
- » Robotic Safety Considerations
- » Preventative Maintenance
- » Using a Memory Card to Download/Upload Programs
- » Operator Stand/Safety Equipment Setup and Operation
- » Zero Program
- » Overview of Robot Controller and Mechanical Arm Unit
- » Block Diagram-Level Theory of Operation
- » Schematic-Level Theory of Operation
- » Disassemble and Detail of Robot Controller
- » Fault Assessment/Troubleshooting
- » Mastering/Calibration of Robot Arm
- » Full Controller Memory Backup and Restore
- » Installing Software
- » Replacing Motors and Encoders
- » Disassemble/Reassemble Robot Arm
- » Auxiliary Axis
- » Local Stop Circuit
- » Review
- » Power Wave® Manager



Duration: 5 Days

Course Fee: \$2,990.00

Course Dates:

02/05/2024 - 02/09/2024

04/15/2024 - 04/19/2024

08/12/2024 - 08/16/2024

Any Questions?

Contact our Automation School Coordinator at: (888) 935-3878

Note: Cancellations made within two weeks of the class start date will not be refunded.



Field Service Shop Training

What Is It?

Lincoln Electric offers a variety of training courses for our network of authorized field service shops. The courses cover detailed instruction on how to troubleshoot and repair various Lincoln Electric welding equipment. They also include discussions on basic electricity and welder components, basic circuitry and theory of operation. In addition there are instructions on using Lincoln Electric’s Service Navigator software and completing warranty repair claims. The classes are approximately 50% classroom instruction and 50% hands-on demonstrations and practice in the repair lab. The courses are offered at both our world headquarters in Cleveland, Ohio and at various District Sales Office locations throughout North America.

Who’s It For?

Courses vary from standard training for newer, less experienced technicians, to advanced training on high technology products and robotics for veteran technicians. New product courses are also offered to keep your shop updated on the latest Lincoln Electric equipment.

INSTRUCTORS



Dennis Trnavsky



Robert Hasan



Michael Oliver

2024 SERVICE SCHOOL TRAINING COURSES

Course Name	Date	Training Location	Class Days	Course Fee	
LASF Certification (5 Days)	LASF301_24_01	1/29/2024 - 2/2/2024	Cleveland, OH	Monday - Friday (Five Days)	\$400.00
	LASF301_24_02	2/26/2024 - 3/1/2024			
	LASF301_24_03	8/19/2024 - 8/23/2024			
	LASF301_24_04	11/4/2024 - 11/8/2024			
LASF Re-Certification (3 Days)	LASF302_24_01	5/21/2024 - 5/23/2024	Los Angeles, CA	Tuesday - Thursday (Three Days)	\$400.00
	LASF302_24_02	8/6/2024 - 8/8/2024	Bloomfield, NJ		\$400.00
	LASF302_24_03	9/24/2024 - 9/26/2024	Dallas, TX		\$400.00
Power Wave®/ Inverter Technology (4 Days)	PWAV301_24_01	5/7/2024 - 5/10/2024	Atlanta, GA	Tuesday - Friday (Four Days)	\$450.00
	PWAV301_24_02	6/4/2024 - 6/7/2024	Chicago, IL		\$450.00
	PWAV301_24_03	8/27/2024 - 8/30/2024	Ft. Collins, CO		\$450.00
	PWAV301_24_04	11/5/2024 - 11/8/2024	Houston, TX		\$450.00
Engine Driven Technology (3 Days)	ENG301_24_01	6/18/2024 - 6/20/2024	Cleveland, OH	Tuesday - Thursday (Three Days)	\$400.00
	ENG301_24_02	7/16/2024 - 7/18/2024	Calgary, AB, CA		\$400.00
Electric Vehicle Charger Technology (2 Days)	EVCHAR301_24_1	5/14/2024 - 5/15/2024	Cleveland, OH	Tuesday-Wednesday (Two Days)	\$400.00
	EVCHAR301_24_2	9/17/2024 - 9/18/2024			

ONLINE LEARNING MANAGEMENT SYSTEM.

In an effort to better serve and train our technicians, Lincoln Electric is exploring other avenues for technicians to receive service training. We now offer online training through our new Learning Management System (LMS). Technicians will need to complete all 12 modules within 90 days of registering and will be recertified for one year upon completion. If you are interested and want more information please contact us via email at ServiceSchool@LincolnElectric.com.

Note: Lincoln Electric non-authorized hotels outside of Cleveland will not provide travel to the class each day. Transportation will be the responsibility of the student.

Regional Programs

Lincoln Electric conducts several training seminars in North America that our local District Sales offices have arranged. These programs cover different topics, including, but not limited to, State Welding Educator Workshops, Power Wave® technologies seminars, Power Wave® AC/DC 1000® seminars, Distributor Training programs and Service School programs. Courses vary in length from 1/2 day to one week.

Requirements

Depending upon the course, there may be minimum attendance and/or fee requirements.

For more information on course dates and type(s) of training being provided locally, please contact your Lincoln Electric District Sales office.



Regional Programs:

Contact the Lincoln Electric District Sales office nearest you. Visit our website: www.lincolnelectric.com for a complete office listing with locations and phone numbers.



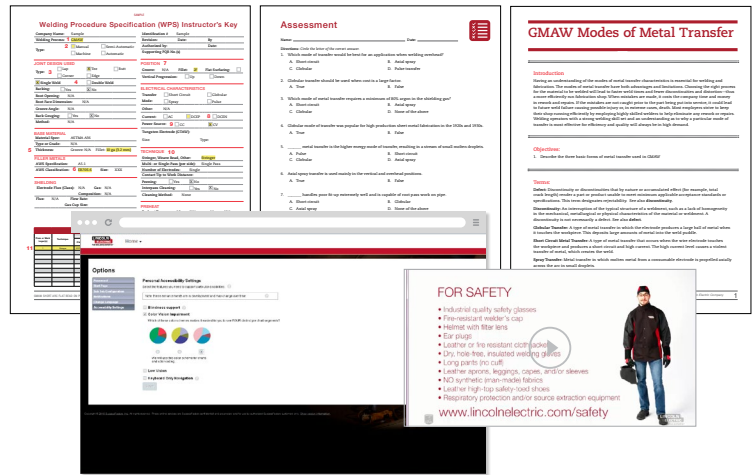
Arc Welding Process Training Materials

The Lincoln Electric Company is dedicated to the advancement, training and safe practice of the art and science of arc welding.

One of the main initiatives in this effort is the production and distribution of some of the most effective training materials in the industry. These materials are made available for little or no cost to welding instructors and include:

U/LINC® Curriculum

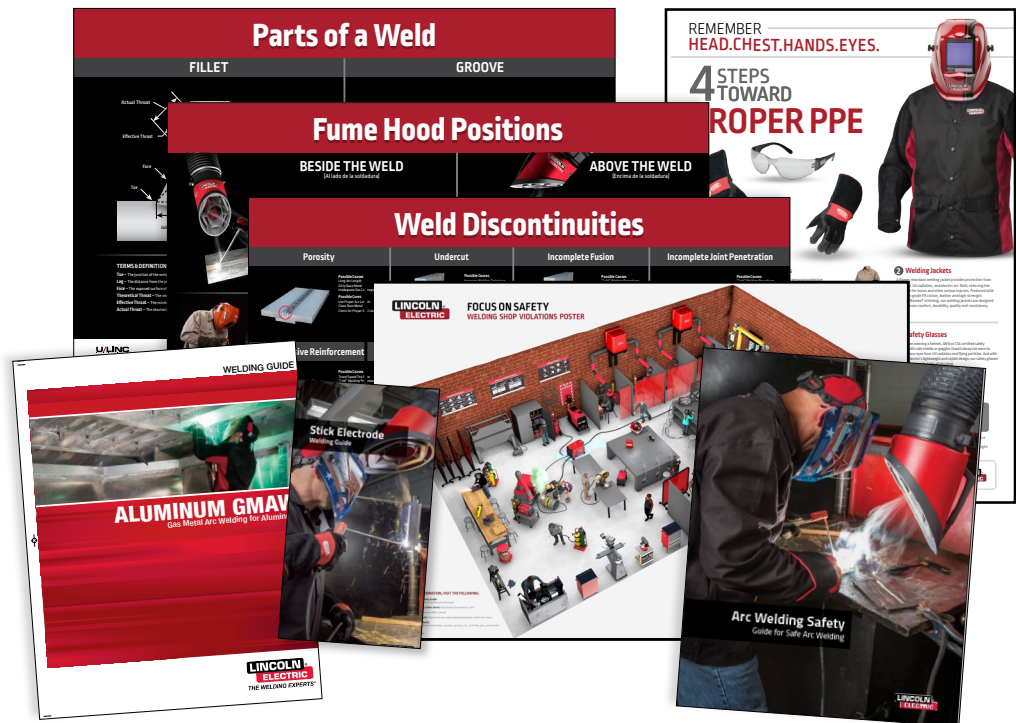
- » Stop spending your time developing curriculum
 - Use U/LINC AWS SENSE and state competency-aligned materials
- » Over 18,000 pages of lesson plans, student assessments, lab activities, videos and presentations
- » Know exactly which state competencies will or will not be met by your program
- » For more information visit: <https://www.lincolnelectric.com/ULINC>



Other Training Materials

- » Posters, welding & process guides, and books
- Order posters individually or as the Educators Poster Pack [BK-296].

For more information, contact us at [educacionalsales@lincolnelectric.com](mailto:educationalsales@lincolnelectric.com)



James F. Lincoln Foundation

TEACH IT

The Arc Welding Bookshelf

The James F. Lincoln Arc Welding Foundation was created *“to encourage and stimulate scientific interest in and scientific study, research and education in respect of the development of the arc welding industry through advance in the knowledge and design and practical application of the arc welding process.”* The Foundation produces and publishes books and other educational materials as a non-profit service to the industry.

BUILD IT

Welding Project Kits

These pre-cut kits provide a fun way for students to try their hand at welding. A clear, step-by-step guide is included.

WIN IT

Welding Awards Program

The Foundation awards over \$45,000 in cash and prizes each year to the winners of its welding design project contests, as well as the state and national SkillsUSA welding competition winners. Visit, www.jff.org for details on specific contest rules, regulations and application forms.



Visit JFLF.org



James F. Lincoln Foundation Arc Welding Bookshelf

A Few of the Popular Textbooks and Videos

The Procedure Handbook of Arc Welding (PH)

14th Edition

Published by The James F. Lincoln Arc Welding Foundation

With over 500,000 copies of previous editions published since 1933, the Procedure Handbook is considered by many to be the "Bible" of the arc welding industry. The hardbound book contains over 750 pages of welding information, techniques, procedures, photographs, drawings and charts. Much of this material has never been included in any other book. A must for all welders, supervisors, engineers and designers. Many welding instructors will want to use the book as a reference for all students.

Metals and How to Weld Them (MHW)

2nd Edition

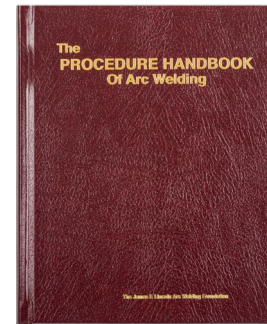
by T.B. JEFFERSON and GORHAM WOODS

This book describes the internal structure of metals and its relation to mechanical and physical properties and weld ability. This dual purpose textbook and reference manual is written in non-technical language so students, welders, supervisors, engineers and educators will easily understand all data. The 400-page book is 6"x9" with gold embossed hard cover.

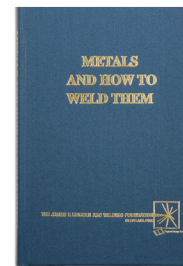
Arc Welded Projects, Vol. V (AP-V)

Published by The James F. Lincoln Arc Welding Foundation

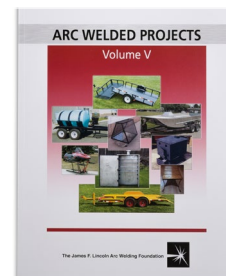
The projects described in this 200-page book represent the range of entries submitted in the James F. Lincoln Arc Welding Foundation Award Programs both as to the type and size of the project, and the nature of the descriptive information included. Each project is detailed, including prints and bills of material, so the do-it yourself person can understand and build these helpful projects. It also provides great ideas for welding school class projects. Arc Welding Projects I through IV also available.



\$30



\$12.50



\$12.50

Learn To Weld—The Lincoln Way: An excellent visual guide for shielded metal arc welding. This tape concentrates on the fundamental techniques of horizontal, vertical up, and overhead welding. Safety section and technical welding guides included. *Running Time: 18 minutes.*
ED201 DVD, \$10.00

Welding—Making It Happen: An excellent video portraying how welding affects our daily lives. Great for teachers and career counselors with students, parents, and the general public. Produced by N.E.M.A. *Running Time: 16 minutes.*
ED204 DVD, \$10.00

Introduction to Semiautomatic Wire Welding: Provides the fundamental expertise necessary to successfully apply both gas-shielded and flux-cored welding wire. *Running Time: 41 minutes.* **ED221 DVD, \$10.00**

Basic Electricity for Arc Welding: Introduces the beginning welder to basic component parts and terminology of arc welding. *Running Time: 9 minutes.* **ED222 DVD, \$10.00**

Introduction to Inverter Technology: Inverters reflect the trend in industry for greater efficiency and higher quality welding machinery with inverters being designed to satisfy that demand. *Running Time: 28 minutes.*
ED223 DVD, \$10.00

VIDEOS

For Welding School Attendees

For students staying long term, there are several student recommended apartments near the Lincoln Electric Welding School. Contact the Lincoln Electric Welding School for a list. Make arrangements in advance of your arrival in Cleveland.

For Technical Training Services Attendees

A block of rooms is reserved at one of the following hotels for each seminar. After registering online, you will receive a confirmation email with information on the hotel, including a link to the hotel booking page. You must contact the hotel directly to make your specific room reservations. Lincoln Electric has negotiated a discounted rate for you.

Crowne Plaza Playhouse Square

1260 Euclid Avenue
 Cleveland, OH 44115
 Phone: (216) 615-7500
 Fax: (216) 615-3355
 Shuttle service available
 Approx. 10 miles from Lincoln Electric

Doubletree Hotel - Cleveland

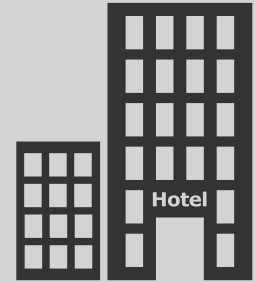
Downtown/Lakeside
 1111 Lakeside Avenue E
 Cleveland, OH 44114
 Phone: (216) 928-3230
 Ask for Lincoln Electric's rate.
 Daily rate includes free hot breakfast buffet.

Hilton Garden Inn - Mayfield

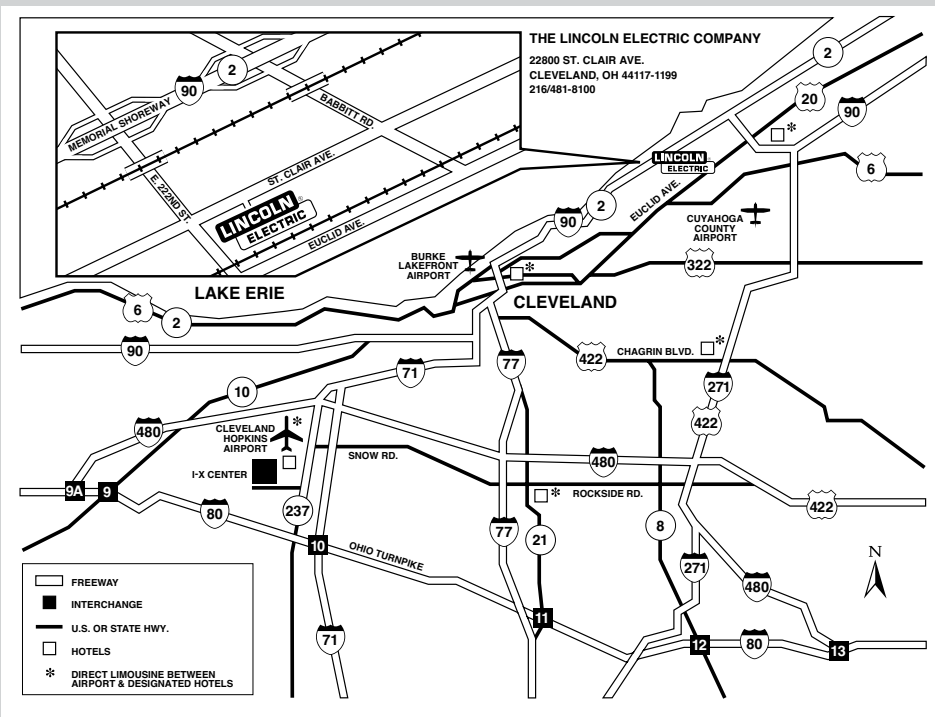
700 Beta Drive
 Cleveland, OH 44143
 Phone: (440) 646-1777
 Approx. 9 miles from Lincoln Electric.
 Ask for Lincoln Electric Rate

Four Points by Sheraton Cleveland-Eastlake

35000 Curtis Boulevard
 Eastlake, OH 44095
 Phone: (440) 953-8000
 Fax: (440) 953-1706
 Website: www.marriott.com
 Shuttle service available
 Approx. 8 miles from Lincoln Electric



HOTELS



The Lincoln Electric Company
 22800 St. Clair Avenue
 Cleveland, OH 44117-1199

The Lincoln Electric Welding Technology and Training Center

Phone: +1-844-818-6038
 Fax: +1-216-383-8088
 email: weldtraining@lincolnelectric.com

The Lincoln Electric Company Technical Training Department

Phone: +1-844-818-6038
 Fax: +1-216-383-8025
 email: weldtraining@lincolnelectric.com

Welding School Policy

Introduction

Welcome to the Lincoln Electric Welding School. We know you have many options when choosing a welding school and we thank you for choosing ours. Please review the policies of our institution on the following pages. All policies listed apply to students enrolled in our programs at the Lincoln Electric Welding School. Please familiarize yourself with our policies before your first day of class.

If you have any questions regarding our policies or programs, please contact the school by phone +1 (844) 818-6038 or by email weldtraining@lincolnelectric.com.

Nothing in this policy is intended to create a contract, including without limitation a contract of employment, either express or implied. Completion of our program should not be construed as a guarantee of employment placement of any kind.

The Lincoln Electric Welding School Mission Statement

To Proactively Provide World Class Leadership and Support for Welding Training through Industry Leading Materials, Programs, Information and Products.

Lincoln Electric Welding School Approvals

The Lincoln Electric Welding School is approved by the Ohio State Board of Career Colleges and Schools (School Number: 71-02-0059T) and accredited to provide International Association for Continuing Education and Training (IACET) Continuing Education Units.

Facility Information

Location

Welding Technology & Training Center
22800 Saint Clair Avenue
Cleveland, OH 44117

Hours (Eastern Time)

Unless otherwise noted, classes are:
8am-4pm Monday-Thursday

Instructor Office Hours:

7am-8am Monday-Thursday or by appointment.

Tours

Tours are offered by appointment only.

Please call the Lincoln Electric Welding School office at +1 (844) 818-6038 to schedule an appointment. Closed-toe shoes and long pants must be worn.

Cafeteria

The cafeteria is available to students Monday through Friday from 7:30 a.m. until 4:00 p.m.

Welding Lab

The welding lab is available to students ONLY during class hours. The fume control system will be turned off before class, after class and during lunch. Students are not allowed to weld or grind when the fume control system is off. Welding is only allowed in authorized areas as indicated by the instructor.

Students are prohibited from bringing the following into the welding lab:

- Headphones / ear buds
- Food
- Beverage in an open container

Student IDs

Student IDs will be issued on the first day of class. The ID allows a student entry to the Lincoln Electric Welding School and must be displayed at all times. On the last day of class, IDs must be returned to the instructor or the student will not receive a certificate of completion. Lost IDs must immediately be reported to the Security Desk. Students will be charged \$25 for a replacement ID.

Parking

Students will receive a temporary parking pass on the first day of class. Parking passes should be placed on the dashboard of your vehicle, visible to security. The Lincoln Electric Welding School is not responsible for damage to a vehicle, theft of the vehicle or any part of the vehicle, or loss of personal items from the vehicle while in the parking lot.

Holidays

The Lincoln Electric Welding School is closed on the following holidays:

- New Year's Eve/New Year's Day
- Good Friday
- Memorial Day
- 4th of July
- Labor Day
- Thanksgiving Day
- Christmas Eve/Christmas Day

During holiday weeks, the normal class hours will be extended. The Lincoln Electric Welding School will close for the last two weeks of December.

Course/Program Cancellation Policy

The Lincoln Electric Welding School retains the right to cancel courses/programs when the course/program does not achieve the minimum enrollment. If a course/program is cancelled by the Lincoln Electric Welding School for failure to meet minimum enrollment, the student will be notified two weeks before the course/program start date. All tuition and fees paid by the student will be refunded within 30 calendar days of the cancellation.

Force Majeure: The Lincoln Electric Welding School also retains the right to postpone, interrupt or cancel courses/programs for any reason, including for causes beyond its reasonable control. These causes include, but are not limited to, Acts of God, fire, power, epidemics, pandemics, labor difficulties, compliance with government laws or regulations, embargo, tariffs, changes in market conditions, delays or shortages in transportation or inability to obtain necessary labor, Raw Materials, or manufacturing facilities from usual sources, equipment failure, or from defects or delays in the performance of its suppliers or subcontractors due to any of the foregoing enumerated causes. Upon the occurrence of any event or circumstance referenced above, The Lincoln Electric Welding School shall have the right to continue, postpone, interrupt or cancel courses at its sole discretion. Lincoln Electric will notify students of such cancellation, postponement or interruption as soon as reasonably possible. All tuition and fees paid by the student will be refunded within 30 calendar days of the course/program cancellation

if the course/program is cancelled before the start date. Courses/programs cancelled after their start date or students not returning to an interrupted course/program will be subject to the Lincoln Electric Refund Policy.

Non-Discrimination Policy

The Lincoln Electric Welding School prohibits discrimination on the basis of race, color, gender, national origin, ethnicity, religion, age, disability, veteran status, sexual orientation, gender identity or expression, or genetic information, or any other condition or status protected by law. In addition, the School prohibits harassment based on any of these protected categories, including but not limited to sexual harassment. It is the responsibility of the Lincoln Electric Welding School to ensure that all individuals involved in the administration, development and delivery of learning events be familiar with Lincoln Electric's discrimination policy. The School will make reasonable accommodations for individuals with known disabilities or religious needs unless doing so would result in an undue hardship to the School or would create a direct threat of safety to other individuals.

The Lincoln Electric Welding School does not condone or practice discrimination of any kind pertaining to groups or individuals based on these protected categories. This policy applies to all aspects of our programs, including admissions, recruitment, advancement, instruction, evaluation, counseling and financial assistance. Our organization values and respects the dignity and worth of individuals within our academic community. This institution believes in and is committed to equal opportunity based on the fundamental reason that every person is valuable. It is our desire to have appropriate conditions for learning and working so that students can strive to achieve their own optimum potential in the work force and in society as a whole.

Anyone who experiences or witnesses unlawful discrimination or harassment should report their concerns to the Supervisor of Welding Instructor or any instructor or official of the School. The School strictly prohibits retaliation against persons for raising concerns about discrimination, sexual harassment

or harassment based on another protected category. Violation of this policy may result in disciplinary action up to and including dismissal.

Admission Policy

Admission to the Lincoln Electric Welding School's career training programs are open to anyone with a high school diploma, GED or high school equivalency diploma.

Applicants who have received a high school diploma from an online secondary program or correspondence school may be required to provide transcripts and/or proof that the program is: A) Accredited by accrediting agency recognized by the U.S. Department of Education B) Authorized to offer online or correspondence high school diplomas by the state they are located in.

If an applicant is not accepted into the training program, all monies paid toward their enrollment shall be refunded. Refunds for books, supplies and consumable fees shall be made in accordance with Ohio Administrative Code section 3332-1-10.1.

Students must be 18, or 16 years of age and attending with a parent or guardian, in order to attend a non-career training course. For further information regarding non-career training admission requirements, please see the course descriptions in the catalog.

Accessibility Services

Eligible students seeking reasonable accommodations for their classes and/or programs at the Lincoln Electric Welding School must provide the following:

- A written request stating the accommodation they are requesting and why the accommodation is needed
- Recent diagnosis (within the past two-years) of their disability from a physician, psychologist or other qualified professional

Students are responsible for requesting accommodations and providing documentation. Reasonable accommodations will not be provided without documentation. The School will evaluate all requests for accommodations on a case-by-case basis. Questions regarding this process should be directed to the Supervisor of Welding Instructor.

Admission Process

Classes/Programs:

1. Register online at: <https://classes.lincolnelectric.com/modules/>
2. Pay registration fee and tuition during registration
3. Student receives a confirmation email
4. Student attends first day of class

Please note, students enrolled in Basic Plate and Sheet Metal Welding must complete the Student Consumer Information Orientation on the first day of class.

Comprehensive Program:

1. Apply on-line at:
2. Upload high school transcript during application process
3. Pay registration fee and tuition during registration
4. Student receives an acceptance email
5. Student attends first day of class and completes the Student Consumer Information Orientation

Students are advised not to make travel arrangements until their reservation for a course or program has been confirmed.

Dismissal Policy

A student can be dismissed from a course or program based on academic achievement (poor grades), poor attendance and/or unacceptable behavior. Please see the Grade Policy (page 43), Attendance Policy (page 42) and Personal Conduct (page 46) section for further information.

Readmittance Policy

A student who is dismissed from the Lincoln Electric Welding School due to grades, attendance or behavior may submit a written petition to the Supervisor of Welding Instructor to be readmitted. Student petitions will be considered on a case-by-case basis and re-admittance will be solely at the discretion of the Supervisor of Welding Instructor.

Readmitted students will be required to complete a Student Improvement Plan with the Supervisor of Welding Instructor. The plan will outline the criteria for the student's continued enrollment in the program/class. Please note, the criteria for attendance and/

or grades may be more rigorous than the minimum attendance and grades listed in the Attendance and Grades policies. The readmitted student must meet the criteria listed on the Student Improvement Plan or the student will be dismissed from the program/class.

If a student is dismissed a second time from the Lincoln Electric Welding School, the student will not be allowed to re-enroll in a program/class for twelve consecutive months. After twelve months, the student will be allowed to petition the Supervisor of Welding Instructor for readmittance .

A student will not be considered for re-admittance if they owe a balance for a prior course/program taken at The Lincoln Electric Welding School. The student will be required to pay the balance before submitting a written petition.

Transfer Credit Policy

Credit(s) granted at another institution cannot be utilized toward the completion of The Lincoln Electric Welding School’s Comprehensive Program and/or other courses/programs.

Attendance Policy

Attendance will be taken at the start of each class. The Lincoln Electric Welding School attendance policy is driven by the expectations of industry: While 100% attendance is ideal, students must be in attendance for at least 90% of each program or course attempted in order to be awarded a certificate of completion. In the event a student cannot attend class, the student is expected to notify their instructor or the Lincoln Electric Welding School personnel immediately by phone or email or both. Instructors can be notified between the hours of 7:30 a.m. and 4 p.m. Monday through Friday at +1 (844) 818-6038 or by email at weldtraining@lincolnelectric.com.

If a student meets one or more of the following criteria during their enrollment in a Lincoln Electric Welding School course or program, they will be dismissed from their enrolled program:

- The student is absent the first day of a course or program
- The student misses more than 3 hours of a 1 week course

- The student misses more than 6 hours of a 2 week course
- The student misses more than 18 hours of a course/ program that is 6 weeks in length or more
- The student misses more than 10% of any given seminar or customized course
- The student is tardy 3 times during a course/ program under 100 hours
- The student is tardy 6 times during a course/ program more than 100 hours

The Supervisor of Welding Instructor may grant exceptions to the above policy on a case-by-case basis.

A student who is dismissed from a course/program due to attendance, grades or behavior will be subject to the Lincoln Electric Welding School Refund Policy.

The last day of attendance will be the official date of dismissal given to the student by the Supervisor of Welding Instructor.

Tardiness and Absences

Students are expected to be on time for class, upon both arrival in the morning and return from lunch and breaks or they will be considered tardy. Students that miss half or entire instructional day(s) will be considered absent.

Each class will begin promptly at the time specified on the schedule. Students must be inside the classroom and prepared with all needed materials when class starts. During class time, students are expected to stay in the area where instruction is taking place, either in the classroom or welding lab.

Accumulation of time missed through tardiness and/or absence can result in a student being dismissed from a course/program (See page 42, Attendance Policy).

All time missed from the classroom/lab is recorded in 15-minute increments in a student’s attendance record. The following instances are considered absences/ tardies:

- Arriving late to class. [Tardiness]
- Returning late from lunch or breaks. [Tardiness]
- Loitering in areas other than the classroom or welding lab during instructional time. [Absent]
- Not attending a class for half or whole day(s) of

instruction. (Absent)

Students who are going to be tardy/absent due to an emergency are expected to notify their instructor or Registration at +1 (844) 818-6038.

The Supervisor of Welding Instructor may grant exceptions to the above policy on a case-by-case basis.

A student who is dismissed from a course/program due to attendance, grades or behavior will be subject to the Lincoln Electric Welding School Refund Policy.

The last day of attendance will be the official date of dismissal given to the student by the Supervisor of Welding Instructor.

Excused Absence

A student enrolled in a course/program more than 100 clock hours in length who is ill or caring for ill dependents or who has a family emergency or a reasonable justification as to why they could not come to class may be eligible for an excused absence. An excused absence will not count toward the maximum amount of time a student can miss before being dismissed from a program. It is at the Supervisor of Welding Instructor's discretion as to whether a student's absence can be counted as an excused absence. Documentation may be requested when deciding whether or not a student's absence is excused.

- **A student cannot utilize an excused absence to miss the first day of class.**
- A student can only utilize 2 excused absences (equal to 2 instructional days) in a course more than 100 hours in length.

Missed Assignments

If a student has an excused absence, it is their responsibility to check with the instructor as to what coursework they missed. Students who have excused absences will be allowed to make up tests and/or graded projects given when they were absent. Students with unexcused absences will not be allowed to make up coursework missed and will be given a zero for the assignment/project or test.

Leave Of Absence

Students who require extended leave must provide written notification to the Supervisor of Welding Instructor. Requests for leave will be considered on a case-by-case basis.

Grades

During and at the end of each program, written tests and welding samples will be assessed to determine the student's ability to successfully complete and pass each program. Weld samples are tested to AWS, ASME and API welding codes. Written tests are graded on the following scale:

A = 90 – 100%

B = 80 – 89%

C = 70 – 79%

D = 60 – 69%

F = 59% or below

To receive a certificate of completion for attending the Lincoln Electric Welding School, students must maintain a 70% GPA on all coursework. If a student falls below a 70% GPA, they will be dismissed from the program.

The Supervisor of Welding Instructor may grant exceptions to the above policy on a case-by-case basis.

A student who is dismissed from a course/program due to attendance, grades or behavior will be subject to the Lincoln Electric Welding School Refund Policy.

The last day of attendance will be the official date of dismissal given to the student by the Supervisor of Welding Instructor.

Graduation Requirements

To receive a certificate of completion from the Lincoln Electric Welding School, students must be in attendance a minimum of 90% of their course or program and maintain a 70% GPA on all coursework.

Tuition and Fees

Tuition for an individual class includes training handouts, welding consumables and steel practice coupons (also stainless steel and aluminum when applicable). **If a student wishes to complete an AWS qualification/certification, additional charges will apply.**
Payment

For classes under 300 clock hours, full tuition and fees are due upon registration.

Classes that are more than 300 clock hours are broken into two academic terms, but tuition payments are due in three payments.

- The first payment is due along with the registration fee upon registration.
- The second payment is due after the student has completed 150 clock hours of the program.
- The third payment is due after the student has completed 300 clock hours of the program.

Failure to make a payment on time will result in the student being removed from the course/program.

Payment is due in full if a student withdraws from a course/program that has already begun or is dismissed from a course/program. Course completion certifications are not released to students who have a balance on their account nor can they participate in any school sanctioned graduation ceremony.

We accept Visa® and Mastercard®. Any questions regarding payment(s) can be directed to the Lincoln Electric Welding School at weldtraining@lincolnelectric.com or by phone at +1 (844) 818-6038.

Policies for Veteran Students Receiving Veteran Educational Benefits

Veterans Benefits

Students who qualify for veterans' educational benefits can utilize their benefits to fund The Lincoln Electric Welding School's Comprehensive Program, Basic Plate and Sheet Metal Arc Welding, API Pipe and ASME Pipe classes.

Veterans Refund Policy

In the event that veterans or their eligible persons sponsored as students under Chapters 30, 32 and 35 of Title 38 and Chapter 1606 or Title 10 U.S. Code, fail to enter the Program or withdraw or are discontinued therefrom at any time prior to completion, the amount charged for tuition, fees and other charges shall not exceed the approximate pro rata portion of the total charges for tuition, fees and other charges that the length of the non-accredited program bears to its

total length. A registration fee of \$10 need not be refundable: any amount beyond that is subject to proration and refund (CFR21.4254(c) (13)). The pro rata portion may not vary more than 10 percent of the total costs for tuition, fees and other charges.

A copy of this policy will be provided to all students receiving educational benefits from the Veterans Administration.

Veterans Previous Training/Education

Prior training or education will be requested and evaluated.

Veterans Attendance Policy*

Attendance for Veteran students will be taken daily and evaluated every week. Veterans are required to maintain an 80% attendance based on scheduled hours of the program (non-cumulative). A student receiving VA Educational Benefits who has missed 20% of scheduled hours will be dismissed from the program and the VA will be notified.

***All students must meet the attendance policy listed on page 42.**

Veterans Academic Policy

Students will be evaluated and graded on exams and welded specimens. A student must maintain a 70% average on completed exams and welded specimens (non-cumulative). Academic performance will be evaluated every two weeks. Should a student's GPA fall below 70% during the program, the student will be placed on probation with one week to improve to 70% or better. If there is no improvement after one week, the student will be dismissed. A student receiving VA educational benefits will be dismissed and the VA will be notified. Re-entry into the program will be determined at the director's discretion.

A copy of this policy will be provided to all students receiving educational benefits from the Veterans Administration.

Veteran's Non-Penalty Policy

The Lincoln Electric Welding School will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a

covered individual borrow additional funds, on any covered individual because of the individual's inability to meet their financial obligations to the institution due to the delayed disbursement funding from the Department of Veterans Affairs under Chapter 31 or 33.

Right to Cancel Policy

If a student registers and enrolls in a course, they may drop the course within five calendar days after the date of enrollment. The student must request a drop online through the Lincoln Electric class registration website and a member of the Lincoln Electric Education Team will contact the student within 3 business days to process the request.

If such cancellation is made, the school will promptly refund in full all course and registration fees paid for the course/program and the refund shall be made no later than thirty calendar days after cancellation. This provision shall not apply if the student has already started the course/program.

Refund Policy – Tuition Charges in the Event of Withdrawal/Dismissal

Academic terms are measured in increments of 300 clock hours. Any programs less than 300 clock hours in length has one academic term. The Lincoln Electric Welding School Comprehensive Program is 480 clock hours in length, which means it consists of two academic terms. Our refunds for tuition and refundable fees are made by academic term in accordance with the following provisions as established by Ohio Administrative Code section 3332-1-10:

- (1) A student who withdraws before the first class and after the 5-day cancellation period shall be obligated for the registration fee.
- (2) A student who starts class and withdraws before the academic term is 15% completed will be obligated for 25% of the tuition and refundable fees plus the registration fee.
- (3) A student who starts class and withdraws after the academic term is 15% but before the academic term is 25% completed will be obligated for 50% of the tuition and refundable fees plus the registration fee.
- (4) A student who starts class and withdraws after the academic term is 25% complete but before the academic term is 40% completed will be obligated

for 75% of the tuition and refundable fees plus the registration fee.

(5) A student who starts class and withdraws after the academic term is 40% completed will not be entitled to a refund of the tuition and fees.

The appropriate refund will be made within thirty calendar days of the date the school is able to determine a student has withdrawn or has been dismissed from a course/program. Refunds shall be based upon the last date of a student's attendance or participation in the course/program.

Any course/program cancelled by the Lincoln Electric Welding School will result in all tuition and fees paid by the student refunded in accordance to the Course/Program Cancellation Policy on page 40.

A student who is dismissed from a course/program due to attendance, grades, or behavior will be subject to the Lincoln Electric Welding School Refund Policy. The last day of attendance will be the official date of dismissal given to the student by the Supervisor of Welding Instructor.

Transfer of Fees

Registration fees are typically nonrefundable after five days of a student registering; however, they may be transferred to another course/program. An applicant can transfer their registration fee to another course/program if the school is notified before the first day of their original course/program. The registration is forfeited if the student needs to reschedule a second time or if the student notifies the school of their intent to change class/program after the original course/program has started.

If a student pays a registration fee of a higher dollar amount than the registration fee of the course it was transferred to, the difference will be allocated to the course fee.

Example: A student pays a registration fee of \$100 and needs to change the course. The new course registration fee is \$50. The student will have a \$50 credit that will be used for the course fee. If course fee is \$500, the student would have a remaining balance of \$450.

Data Privacy, Personal Information and

Student Records

For information regarding how the Lincoln Electric Welding School collects, uses and discloses a student's personal information, please see our Student Privacy Notice and Policy at: <https://www.lincolnelectric.com/en>. The Student Privacy Notice and Policy also describes how a student requests access to their student records or authorize the disclosure of such information to a third party.

By providing your personal information to the Lincoln Electric Welding School, you hereby acknowledge, understand and agree to the nature, manner and scope in which we collect, use and disclose your personal information, as set forth in this Student Privacy Policy.

Personal Conduct

All participants are expected to conduct themselves in a respectable manner at all times. Misconduct such as fighting, unprofessional behavior, hazing, harassment, actions in violation of our Non-Discrimination Policy, use of illegal drugs or alcohol, or carrying of weapons will not be tolerated and will result in automatic dismissal from the Lincoln Electric Welding School.

Deliberate damage, theft or any vandalism to tools, equipment or facilities will not be tolerated and will result in automatic dismissal from the Lincoln Electric Welding School. Students responsible for these offenses may be prosecuted.

Not following safety procedures or utilizing equipment in an unsafe manner may also result in dismissal from the Lincoln Electric Welding School.

A student who is dismissed from a course/program due to attendance, grades or behavior will be subject to the Lincoln Electric Welding School Refund Policy.

The last day of attendance will be the official date of dismissal given to the student by the Supervisor of Welding Instructor.

Cell Phones and Other Personal Data Devices

Personal data devices and electronics can be utilized for classroom and lab work; however, students may be asked to discontinue use or to leave the class if their personal data devices or electronics are disruptive or

distracting.

Photo and Recording Policy

Pictures or videos may not be taken anywhere on company property unless approved by the Supervisor of Welding Instructor. In addition, the use of audio recording devices is prohibited.

Alcohol and Illegal Substances

Students cannot consume, show evidence of having consumed, possess or use any alcoholic beverages or illegal drug(s) at the Lincoln Electric Welding School or on the surrounding property. Illegal drugs include marijuana regardless of whether the student possesses a valid medical marijuana card. A student who is taking a prescription drug that may impair their ability to function in the welding lab must notify and consult with the Supervisor of Welding Instructor.

Evidence of consumption, usage or possession of alcohol or illegal drugs will lead to expulsion from the Lincoln Electric Welding School and possible notification of law enforcement.

Dangerous Weapons

Regardless of having a concealed/carry weapons license or permit, students are prohibited from carrying or having firearms or weapons in the Lincoln Electric Welding School.

Tobacco Policy

Smoking, vaping and chewing tobacco are strictly prohibited in the Welding Technology and Training Center and surrounding parking lot. (Students should ask their instructor for designated smoking areas outside of the facility.)

Lincoln Electric Weld School Phones, Computers and Devices

Personal calls are prohibited on Lincoln Electric Welding School phones. Likewise, students may not use School computers and devices for personal activities unless authorized in advance. The School retains the right to access all data and information on School phones, computers, and devices. Students retain no expectation of privacy when using School Phones, Computers, or Devices, or when accessing school

networks and servers, such as email, on personal devices.

Restricted Areas

Unless accompanied by an instructor, all areas of the distribution center are off limits. Furthermore, the Lincoln Electric Welding School and training labs should not be occupied unless accompanied by an instructor.

Grievance Procedure

All student complaints should be first directed to the school personnel involved or the Supervisor of Welding Instructor. If no resolution is forthcoming, a written complaint shall be submitted to the Supervisor of Welding Instructor. Whether or not the problem or complaint has been resolved to their satisfaction by the school, the student may direct any problem or complaint to the:

Executive Director, State Board of Career Colleges and Schools,
30 East Broad St, Suite 2481,
Columbus, Ohio, 43215
Phone +1 (614) 466-2752; toll free +1 (877) 275-4219.
Lincoln Electric Welding School Number: 71-02-0059T

Safety

All participants will be required to wear basic safety gear at all times in the Lincoln Electric Welding School. Basic Personal Protection Equipment (PPE) gear includes safety-toe footwear, safety glasses with side shields, a shirt and long pants (non-synthetic fibers only). Items such as helmets, lenses, gloves, leathers and caps may be available in the Lincoln Electric Welding School store at special student prices.

Equipment and PPE Gear

Welding will begin on the first day of class. Students are responsible for providing the following PPE gear, which they must wear at all times when welding:

- Ankle-high leather shoes with safety toes
- Safety glasses that include side shields. Prescription eyewear will be allowed as long as it includes side shield protection and meets all other safety requirements.
- Long pants (No synthetic fibers allowed; no cuffs; absolutely no shorts permitted.)

- Long sleeve shirt (No synthetic fibers allowed) or welding jacket
- Welding gloves
- Welding helmet
- Head gear (A bandana or do-rag to protect head from sparks when welding out of position)
- Hearing protection (Earplugs will be provided)
- Students must also be prepared with the following materials:
 - » Wire brush
 - » Pliers
 - » Three-ring binder with writing utensils for class

Safety information, rules, and instructions will be provided to students periodically. Students must abide by all safety rules and instructions at all times. Failure to do so may result in discipline, suspension or dismissal.

Any optional equipment worn at the discretion of the student, example: particulate respirator masks, must be provided by the student.

Locks and lockers are furnished by the Lincoln Electric Welding School. Students should provide any personal items such as a flashlight, hand tools, and/or helmet.

Please note: The school is not responsible for articles left in lockers.

Medical Emergency

All medical emergencies must be reported using the appropriate procedures. If you or someone nearby experiences an injury or other medical emergency, immediately contact an instructor or use the nearest telephone to contact Lincoln Electric's emergency services by **dialing 2222**. Do not dial external emergency numbers. If you receive an injury that is not life threatening, please notify your instructor.

Other Emergencies

The Lincoln Electric Welding School has an emergency plan in place, which will be explained to you at the start of the program.

Policy Requiring Disclosure of Instructor's Proprietary Interest

It is the policy of the Lincoln Electric Welding School that any instructor's proprietary interest in products,

devices, services or materials discussed, as well as the source of any compensation related to the presentation be disclosed to learners prior to the start of the learning event.

Intellectual and Legal Property Rights Policy

It is the policy of the Lincoln Electric Welding School to give appropriate credit when a learning event utilizes any media that was not created by Lincoln Electric.

Contact and Tour Information

The Lincoln Electric Welding Technology & Training Center
22800 St. Clair Avenue
Cleveland, OH 44117-1199
Phone: +1 844 818 6038
Fax: +1 216 383 8088
weldtraining@lincolnelectric.com







WAKE YOUR MARK.™

CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company® is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that GMAWht arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.

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