



EDUCATION SOLUTIONS

PRODUCTS AND SERVICES TO BUILD A SUCCESSFUL WELDING PROGRAM



Industry-Leading Complete Welding and Cutting Education Solutions



One Stop. One Partner.

No other supplier offers a more comprehensive set of products and services for the welding educator or industrial trainer.

WELDING WIRE + ELECTRODES

Our products cover a comprehensive array of welding processes with a wide range of materials, including aluminum, stainless steel and high alloys.

ADVANCED MULTI-PROCESS WELDERS

Tackle more materials, projects and arc welding processes with an advanced welding power source.

PROFESSIONAL DEVELOPMENT

Seminars and classes are offered for welders and instructors at every level.

LEEPS - THE LINCOLN ELECTRIC EDUCATION PARTNER SCHOOLS PROGRAM

A stackable welding certification program in partnership with NC3, the National Coalition of Certification Centers.



ENVIRONMENTAL OFFERINGS & CONSULTATION

Consulting services on the construction of welding classrooms, booths and schools.

Why Choose Lincoln Electric?



One Stop. One Partner.

Lincoln Electric is the only supplier providing integrated solutions for equipment, consumables, certification and consulting services for booth and fume construction.



Reduce Program Costs

The Education Portal dramatically reduces electrode and supply input prices. Advanced training systems boost practice time while reducing the cost of materials.



Skills Development

Students master welding faster with detailed and immediate feedback provided by advanced welding training systems.



Promote Welding Safety

Prevent welding hazards with durable PPE and maintain safe environmental conditions with powerful fume extraction systems.



Up-To-Date Curriculum Materials

Welding and cutting equipment, advanced training systems and robotic cells are closely aligned with our U/LINC® curriculum for easy program integration.



Support Welding Instructors

Professional development courses, instructor packs, posters and technical guides keep educators and industrial trainers current with the needs of industry.



Build A Stronger Workforce

Our educational offerings reflect our company's experience serving every industry segment with advancing technology.



Prepare For The Future

Prepare students with complete automation and robotic training designed to meet the needs of advanced manufacturing.



Welding Consumable Solutions

Welding Electrodes and Wire

Application-Specific. Comprehensive Offering.

Industry now demands welding consumables that deliver very specific performance for very specific applications – automotive and transportation, general and heavy fabrication, maintenance and repair, offshore, pipeline, pipe mill, power generation, shipbuilding, heavy equipment, structural and cross-country pipe.

We offer targeted consumables in a wide array of alloys, packages and process types to meet the needs of industry, as well as your own school program. Just as it's important to teach using top industrial-grade equipment, it's just as important to allow your students to practice with the industry's top welding consumables.

- Steel
 - Stainless Steel
 - Aluminum
 - High Alloy
 - Hardfacing
- SMAW
 - GMAW
 - GTAW
 - FCAW
 - SAW



Education Resource and Purchasing Portal

Capture Cost Savings for Your Program⁽¹⁾



Solve Welding Education Challenges

Stretch Budget Dollars

Access the Industry's Highest Quality Products

Access FREE Training Resources



Take advantage of **educational pricing** on SMAW, GMAW, FCAW and GTAW consumables

Save On Top-Quality Products

Lincoln Electric Electrodes as Low as \$1.50 /lb

Special Pricing on Welding Gear, Tools and Accessories

Traceable Order Status and History

FREE Shipping on Orders Over \$2500 in Contiguous United States

⁽¹⁾The Education Resource and Purchasing Portal is available only to qualified schools, including academic schools, skilled trades training centers and correctional training programs.

Top Quality Products



Learn more at education.lincolnelectric.com/portal



Equipment Solutions

Welding and Cutting Equipment

From the Lab to the Real World.

It's important for students at every level to train on the equipment they will work with throughout their career. Using professional level equipment from industry leaders helps each student hit the ground running at their first job and beyond. We offer the welding industry's most comprehensive line of welding and cutting equipment suitable for training the most rudimentary skills to industry's most advanced applications.

- Welding Power Sources for Every Arc Welding Process
- Wire Feeders
- Welding Gear
- Welding and Cutting Automation
- Brazing, Soldering and Oxyfuel Cutting and Welding



Welding PPE

Remember: Head. Chest. Hands. Eyes.



Welding Jackets

A welding jacket is crucial protective clothing for welders. It covers the torso, arms, and upper body to safeguard against heat, sparks, and splashes. Produced with premium grade flame-resistant cotton, leather and high-strength Kevlar®/Nomex® stitching, our welding jackets are designed for optimum comfort, durability, quality and consistency.



Welding Helmets

Helmets shield the eyes, face, and neck from debris and sparks. Lincoln Electric helmets are lightweight, auto-darkening, comfortable, and have top optical clarity.



Welding Gloves & Sleeves

Made from heat-resistant or flame-resistant materials, welding gloves and sleeves protect your hands and wrists from burns, cuts, and injuries while working with hot materials and equipment.



Safety Glasses

Even when wearing a helmet, ANSI or CSA certified safety glasses with side shields or goggles should always be worn to protect your eyes from UV radiation and flying particles. With Lincoln Electric's lightweight and stylish design, our safety glasses can be worn comfortably all day long.

Our Products Are Designed To:



Protect in welding processes and environments



Deter wear and abrasion



Increase burn protection and heat resistance



Enhance durability and performance



Provide greater comfort and mobility

Order Welding Gear and Tools at education.lincolnelectric.com/portal



Classroom Teaching Aids

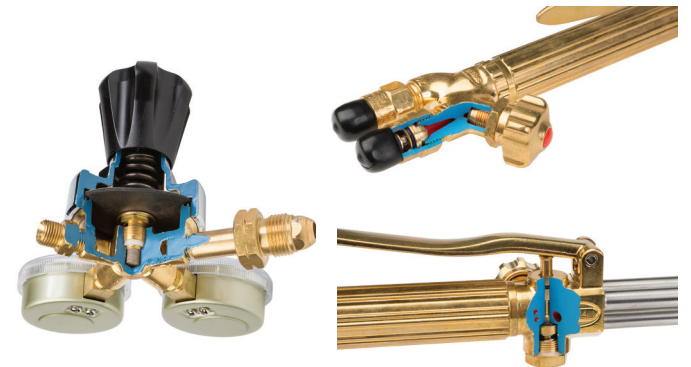
Bring Your Classroom to Life



Enhance the Learning Experience

Teaching Aid Tool Box

Show how welding tools work and why processes are selected for the job at hand. Comes filled with weld and joint samples, welding guns, torches and parts.



Cutaway Harris® Regulator and Oxyfuel Torch allow you to show correct safety procedures and how oxygen and acetylene are mixed.

Plasma Cutting Systems

Expand Student Metalworking Skills



Make your shop a **complete metalworking operation** – cutting, welding, finishing

Torchmate 4400, 4505, 4800 or 4510



- Choose from a complete line of handheld plasma cutters and CNC plasma cutting systems
- It's easy to add new students with unlimited student licensing on Torchmate® CAD software
- Instructors and students quickly gain confidence through Torchmate Academy, a set of web-based video and Livestream® training sessions
- Handle full-size 5 x 10 ft. sheets, eliminating expensive third-party pre-processing, with a Torchmate 4510 system



FlexCut® 45



FlexCut® 85



FlexCut® 125

<https://torchmate.com/educational-packages>



LEEPS Lincoln Electric Education Partner Schools Welding Certification Program



Joining Forces to Advance Welding Education Standards

Lincoln Electric's LEEPS® program, in partnership with the National Coalition of Certification Centers (NC3), provides schools with a complete suite of portable, stackable national welding certifications which makes them more competitive and expands job opportunities. LEEPS supports welding schools and programs throughout the nation with the most comprehensive and relevant welding education tools and resources available for advancing specific skills necessary for succeeding in specialized welding fields.

BENEFITS

Vision & Benchmarking:

- Benchmarking to model campuses and programs
- Serve as National Center of Excellence model for other schools
- Opportunities to collaborate with NC3's network of educators and industry partners

Instructor Training:

- Access to NC3 train-the-trainer events and certification curriculum
- Professional development opportunities for instructors to become national NC3 Master Instructors
- Instructor certifications provide accountability to validate programs

Turnkey Certification System:

- Use of NC3's certification system and supporting materials
 - Unlimited student certification issuance for all NC3 certifications
 - NC3 certifications can be applied across several different industries creating flexible, stackable, and relevant credentials
- Examples:* Welding, Transportation, Manufacturing, Energy, Building Trades, Aviation, Digital Literacy and Agriculture

Industry Partner Access:

- Opportunities for cross-promotion, co-branding, partner signage, web marketing
- Access to U/LINC welding curriculum
- Lincoln Electric driven certification valued by industry partners
- Direct engagement and program guidance from Lincoln Electric and other NC3 partners
- Lincoln Electric supported industry training opportunities

Learn more at <https://www.lincolnelectric.com/en/Education/Training-Programs/Educators/LEEPS-Program>

U/LINC Welding & Cutting Curriculum

Powered by Tooling U-SME



Lincoln Electric's U/LINC educational program connects welding theory, practice and knowledge through the Tooling U-SME learning management system. Its curriculum promotes learning and student engagement while giving the instructor maximum control over their programming. Instructors can select a pre-built curriculum or customize their own with more than 18,000 pages of materials from lesson plans and student handouts, to lab activities and PowerPoint presentations.

Subscribers to the U/LINC educational program can easily search, download and print lesson plans, class assignments, student handouts, and more! Lesson plans contain in-depth directions, tips, and teaching strategies that leverage Lincoln Electric's 100+ years of welding training knowledge. They can also set permissions and course parameters, manage students and track their performance.

What's Included in the Curriculum

Subjects

- Shielded Metal Arc Welding (SMAW)
- Submerged Arc Welding (SAW)
- Robotics
- Gas Metal Arc Welding (GMAW)
- CNC Plasma Cutting
- Aluminum Welds
- Flux-Cored Arc Welding (FCAW)
- Stainless Steel Welds
- Gas Tungsten Arc Welding (GTAW)
- Welds up to 6G

200+



Lesson Plans

180+



Student Handouts

150+



Assessments

100+



PPT Presentations

100+



Lab Activities

200+



Student Reference Guides

70+



Videos

Enhanced Reporting and Tracking Capabilities

✓ Design Your Own Performance Dashboard

✓ Create-Your-Own Competencies

✓ Choose Your Curriculum Sequence

✓ Organize Student Groups

Learn more at lincolnelectric.com/ulinc



Voyage Arc Virtual Reality Career Exploration Tool

The First Step to Discovery

Introduce students to welding fundamentals and career pathways through an immersive virtual experience designed to spark interest and inspire future careers.



Engaging Student Experience



Self-paced, immersive welding lessons create rewarding learning adventures that keep students engaged and curious.

Complete Classroom Solution



A classroom ready, all in one exploration tool that's easy to deploy, simple to monitor, and built to support inclusive career exploration.

Reliable, Cutting-Edge Technology



Cutting edge VR technology introduces welding fundamentals through a safe, multi-sensory experience that engages and supports every student.

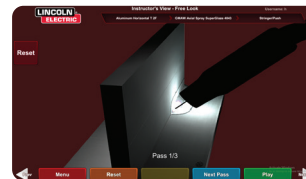
Learn more at education.lincolnelectric.com/realweld

VRTEX Welding Training Simulators

Virtual Training – Real Results



Exclusive visual discontinuities
& real welding sounds
help correct technique



Most realistic & responsive
welding puddle behavior

VRTEX® 360+ Dual User

- Retractable SMAW stick stinger, GMAW/FCAW gun and GTAW TIG torch, filler metal and adaptive foot pedal devices realistically simulate the look, feel and action of actual guns and torches
- Two of each device is included
- Dual stands allow for training two welders at a time on one machine

VRTEX 360 Compact

- Retractable SMAW stick stinger, GMAW/FCAW gun and GTAW TIG torch, filler metal and adaptive foot pedal devices realistically simulate the look, feel and action of actual guns and torches
- Compact and easy to transport



Learn more at education.lincolnelectric.com/vrtex



Welding Booths & Tables

Create an Effective and Efficient Space for Teaching

CREDIBLE ADVICE



We Provide Consultation Services You Can Trust

EDUCATION EXPERIENCE



We Serve the Unique Needs of Welding Programs, Big and Small



Welding Booths



Pipe Table



Standard Weld Table
(Half-Moon)



Booth Assist



Adjustable Stool

Fume Extraction Systems, Train in a Safer, More Comfortable Environment



TECHNICAL EXPERTISE



Our Environmental Specialists are
Experts in Fume Extraction

SIMPLE EXECUTION



Have Confidence in Fume Control
Solutions from Lincoln Electric



Extraction Arms



Prism® Exhaust Booth



X-Tractor® Mini



Circulator®



VIKING™ 3350
PAPR



Magnum® PRO 350 / 550
Fume Extraction Gun

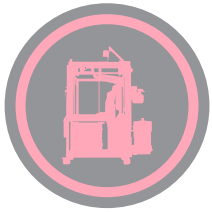


Prism® Downdraft
Tables



Prism® Filter Banks

Questions about fume system configuration? Call 1-888-935-3878 Ext. 4



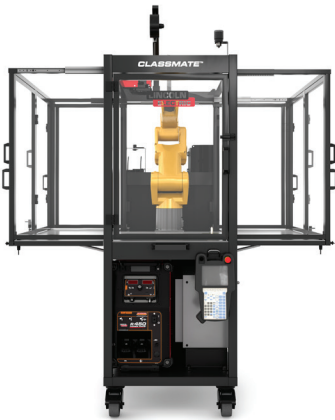
Robotic Welding Training Systems

Advancing the Next Generation of Manufacturers

Train with a complete, compact and state-of-the-art solution for robotic welding training.

ClassMate® Systems

- Teach robotics using the same full-featured teach pendant used in manufacturing and fabrication facilities
- WeldPRO® training program and simulation software allows offline student programming
- Accelerate student skills and capabilities for high graduation and employment rates



ClassMate® M



ClassMate® Pro System



ClassMate® Cobot



ClassMate® Laser Cobot

Learn more at lincolnelectric.com/classmate

Need Help Designing a Welding Training Environment?



Lincoln Electric's environmental specialists have helped welding educators across the country create effective and efficient training spaces, big and small.

Who We Serve:

- High Schools
- Community Colleges
- 4-Year Colleges and Universities
- Career & Technical Education Facilities
- Apprenticeship Programs/Labor Unions

How We Help:

- We consult with you to understand your fume control needs, space limitations and cost and maintenance considerations
- We recommend environmental solutions to match your applications' needs
- We provide equipment, drawings and installation support*

* Dependent upon terms of service package



How to Get Started:

Request to speak to one of Lincoln Electric's environmental specialists by calling 888-935-3878 EXT. 4.



Train-the-Trainer Professional Development

Advance Your Skills and Knowledge

Take your welding program to the next level with courses designed to support welding instructors.



TRAIN-THE-TRAINER

Four Process
Welding



WORKSHOPS & SEMINARS

WEW
301

Welding Educator's
Workshop

BTB
301

Beyond the Booth
Instructor Course

TTS
501

Blodgett's Design of
Welded Connections



ROBOTICS

FANUC
101

Advanced Robotic
Programming

FANUC
201

Intermediate Robotic
Programming

FANUC
301

Advanced Robotic
Programming

FANUC
401

Robotic Service
Course

WELDING EDUCATOR SKILL ADVANCEMENT PROGRAM

Special Pricing for Educators
For a course in the welding school catalog

*Does not include comprehensive program or workshops and seminars.

COURSES INCLUDE:

- Introduction to Basic Plate & Sheet Metal Arc Welding
- Gas Metal Arc Welding
- Gas Tungsten Arc Welding
- Flux-Cored Arc Welding
- AC/DC Submerged Arc Welding
- And More!

Custom Training

Raise the Bar on Skill Development



Our Expert Instructors Can Design a **CUSTOM, RESULTS-ORIENTED** Training Program Just for You

“

The WTTC is incredible! The instructors are very helpful and have vast knowledge of welding equipment and its many applications. In addition to helping me set up the Introduction to Welding course at my school, this experience has encouraged me to return to take a course to refresh my own skill set.

Marco Osuna, CTE Instructor/Department Chair, Yerba Buena High School, San Jose, Calif.

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EXAMPLES OF CUSTOM TRAINING PROGRAMS:



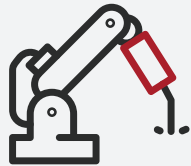
Welding Certification
Preparation



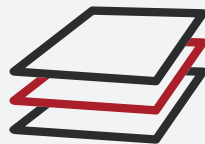
Knowledge/Skill
Enhancement



Master New
Welding Process(es)



Advanced Welding
Equipment/Techniques



Industry/Plant Specific
Team Training



Increase Quality, Cost
Savings & Production



Visit education.lincolnelectric.com/customtraining

A Complete Training Solution

For Welding Educators and Industrial Trainers



For more information, visit education.lincolnelectric.com or contact EducationalSales@lincolnelectric.com

CUSTOMER ASSISTANCE POLICY

The business of Lincoln Electric is manufacturing and selling high quality welding equipment, automated welding systems, consumables, cutting equipment and EV charging systems. Our challenge is to meet the needs of our customers, who are experts in their fields, and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or technical information about their use of our products. Our employees respond to inquiries to the best of their ability based on information and specifications 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, or to provide engineering advice in relation to a specific situation or application. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or communications. Moreover, the provision of such information or technical information does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or technical information, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose or any other equivalent or similar warranty is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the definition of specifications, and 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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