

**Learn About:**

- Techniques in Welding
- Types of Welding Processes
- How to Weld on Steel
- How to weld on Aluminum alloys
- How to Weld on Stainless Steel
- How to Weld Repair Cast Iron
- Welding and Brazing on Copper and Copper Alloys
- Review of Cutting Processes for Maintenance Welding
- Welding Safety
- Welding Costs and Records

# MAINTENANCE WELDING

Specifically designed for welding technicians and other personnel working in industrial plants and facilities.



▶ *“A down to earth course for both the novice and experienced welder.”*

## A 2-Day Course for Fundamentals, Practical Applications & Best Practices

- Reserve your space now! **CALL 1-877-978-7246**
- Check us out online at [live.tpctraining.com](http://live.tpctraining.com) for a complete listing of all seminars coming to your area
- This seminar is also available as an **Online Simulcast** or can be brought **On-Site** to your facility



## SEMINAR OVERVIEW

This maintenance welding seminar includes discussions on welding skills improvement and is specifically designed for welding technicians and other personnel working in industrial plants, construction, manufacturing, metalworking and fabrication shops, and other similar facilities or applications. This seminar will focus on welding principles before spending the most time on welding on various types of metal. As always, safety is a big part of our seminar curriculum. Overall, this maintenance training program is designed to teach students how to produce smooth, strong, quality welds while establishing a culture of safe work practices among employees.

## WHAT YOU WILL TAKE HOME

- Comprehensive classroom materials
- A Personalized Training Certificate with 0.8 TPC Training Continuing Education Units for each day attended, 1.6 for both days.
- All the information you need from asking our instructors specific questions about your own unique equipment or facility.

## CONTINUING EDUCATION

Upon completion of this seminar, the student will receive a Certification of Completion and .8 TPC Training CEUs per day attended. Most employers and many government agencies accept TPC Training CEUs to fulfill their continuing education requirements. If the student needs CEUs to renew a state license, please contact us at 303-867-5039 to ensure the state licensing board has approved the seminar. If we are currently not approved by your state licensing board, we are happy to begin the process as long as we receive your request at least one month before the training date.

## TRAINING PHILOSOPHY

TPC Training's curriculum is designed to provide complete coverage of essential industrial maintenance skills, across a full range of electrical training, HVAC, plant management, and mechanical & industrial topics. Our "see, touch, do" instructional approach allows us to impart practical skills in an intensive format.

The most vital part of our seminar format is the coverage that goes beyond the course outline. Our small class sizes allow each instructor to tailor the course to address students' individual needs, concerns, and experience levels. Our instructors deliver content with hands-on exercises, demonstrations role-playing, visuals, and case study discussions.

 **"Highly Recommended"**

**William S. - Electrical Technician**

## DISCUSSION TOPICS

### Techniques in Welding

- Butt and Lap Joint
- Fillet
- Complete and partial joint penetration
- Welding positions

### Types of Welding Processes

- STICK (SMAW)
- MIG (GMAW)
- TIG (GTAW)
- Other; Flux Cored (FCAW) and Oxy-acetylene

### How to Weld on Steel

- Steel and its alloys
- Selection of welding processes
- Preheating
- Best practices for welding on steel

### How to weld on Aluminum alloys

- Selection of welding processes
- Filler metals for Aluminum alloys
- Best practices for welding on Aluminum alloys

### How to Weld on Stainless Steel

- Types of Stainless steel
- Filler metal selection for stainless steel
- Best practices for welding on Stainless Steel

### How to Weld Repair Cast Iron

- Problems in Welding Cast Iron
- Filler metal Selection
- Best Practices for Welding Cast Iron

### Welding and Brazing on Copper and Copper Alloys

- Welding and Brazing on Cast and Wrought Products
- Filler metal selection
- Best practices for welding on copper and alloys

### Review of Cutting Processes for Maintenance Welding

- Plasma machines
- Oxy-acetylene

### Welding Safety

- Heat Protection
- Electrical Shock
- Radiation Protection
- Hearing Protection
- Smoke and Fume Protection

### Welding Costs and Records

- Use of Welding Codes
- Personnel Certification
- Written Welding Procedures
- Welding costs direct and hidden

## SEMINAR FEE & AGENDA

This 2-day course is just \$1195 (Earn 1.6 CEUs)

7:30 am	Registration
8:00 am	Class Begins
12:00 -1:00 pm	Lunch (on your own)
4:30 pm	Class Ends

## NO RISK REGISTRATION & MONEY-BACK GUARANTEE

You can reserve your space in the class at any time and cancel without penalty. Cancellations made more than 14 days prior to the seminar may be refunded or rescheduled. Cancellations made within 14 days may be rescheduled for any future topic and/or date. If you're not satisfied with the course, we'll promptly refund your payment.

## JOIN OUR CLASSROOM SEMINARS FROM VIRTUALLY ANYWHERE

[live.tpctraining.com/simulcast](http://live.tpctraining.com/simulcast)

Our simulcast option allows students to connect to a live classroom seminar via a web link, with the ability to participate fully in the classroom dialogue, exercises, and Q&A. Online participants get all the benefits of the full classroom experience, plus the convenience of remote access.

### Features include

- Two full days of live, interactive instruction from a TPC Training instructor
- All classroom materials in PDF format
- Certificate of completion for 16 hours of live training
- Full technical support to ensure your online experience is a rewarding one

## BRING THE TRAINING ON-SITE TO YOUR FACILITY

[live.tpctraining.com/on-site](http://live.tpctraining.com/on-site)

Every public seminar class in our Course Catalog can be conducted on-site, with the same expert instructors. To arrange an on-site training, call or email us at [onsite@tpctraining.com](mailto:onsite@tpctraining.com).

### Some Advantages of On-Site Training

- Cost Savings — Save time and travel costs by keeping workers on-site
- Customized Content — Tailor the seminar to your facility and equipment
- Flexibility — Accommodate multiple shifts and different start and end times

