

# Career-Level Programs

" WTTI gave me the training and the certification that I needed to qualify for jobs and survive a tough economy. And they put me in touch with the right people once I graduated."

Mark Barowski, graduate

" I graduated from the Welder Fitter Program at WTTI. They helped me contact the company that hired me. What can I say besides it was worth it... I really like my new job! "

Collette McElheaney, graduate



Student welding plate

WTTI trains students to become professional welders ready to work upon graduation. Our career-level programs, the Welder Fitter Program and Combination Welding Program, are designed for incoming students who have little or no welding experience. The Welder Fitter is our primary program and the one most frequently chosen by incoming students. Both are eligible for financial aid from various sources for those who qualify.



**Yes! Financial aid is available for those who qualify.**

## WELDER FITTER PROGRAM (900 HOURS):

**DESCRIPTION:** Students of the Welder Fitter Program commence with the same course of study as the Combination Welder (as described on the following page), and continues on to receive additional specialized training that extends students' skills beyond Combination Welding. Further training incorporates extra hand-on time in Gas Tungsten Arc Welding (TIG) working with a variety of other metals (carbon steel, stainless steel, and aluminum plate and carbon steel pipe). It also covers Combination Processes, where students are instructed in the additional considerations that come into play when more than one process is needed in the joining procedure. This extended Program also includes basic instruction in both pipe fitting and structural layout.

**OBJECTIVES:** Welder Fitter graduates should be proficient in both manual and semi-automatic welding processes. The student should be able to pass performance tests in accordance with the American Welding Society (AWS) Structural Welding Code. The Welder Fitter possesses the flexibility and versatility of the Combination Welder plus the specialized skills required to follow a blueprint in the fabrication shop and actually layout and fit up the materials prior to welding. The Welder Fitter is considered a specialist within the welding field and is fundamentally prepared to continue training for technician employment. The Welder Fitter graduate should be prepared to enter the field as a welder, a fitter, or welder-fitter on an entry level. Specifically, the Welder Fitter graduate should be able to meet all the objectives of the Combination Welder Program (on next page), plus these five added objectives:

- 1-8. Meet all objectives of the Combination Welding Program.
9. Determine materials needed for fabrication according to information provided in welding blueprints.
10. Follow a blueprint and be able to layout all necessary materials.
11. Cut required materials, secure with fixtures, perform tack welds per shop drawings, and do the finish welding required.
12. Weld on Stainless Steel and Aluminum using the Gas Tungsten process
13. Employ more than one process in the joining procedure.

## COURSE OF STUDY:

Plasma/Oxyacetylene Welding/Cutting.....	60 hours
Electric Arc Flat Position.....	90 hours
Electric Arc Horizontal Position.....	60 hours
Electric Arc Vertical Position.....	90 hours
Electric Arc Overhead Position.....	60 hours
Gas Metal Arc Welding (MIG).....	60 hours
<i>(Short Arc/ Globular/ Spray Arc/ Pulsed Arc transfer applications)</i>	
Flux Cored Arc Welding (Self-Shielded/ Gas Shielded).....	30 hours
Pipe Welding All Positions.....	60 hours
Gas Tungsten Arc Welding (TIG).....	90 hours
Theory.....	75 hours
Blueprint Reading.....	35 hours
Combination Processes.....	30 hours
Layout/Fitting & Student Project.....	100 hours
Testing (certification at additional charge).....	60 hours

**TOTAL= 900 hours**

## Welder Fitter Program offers:

- ✓ Extra TIG
- ✓ Work with Additional Metals
- ✓ Instruction in Combination Processes
- ✓ Instruction in Layout/Fitting