Welding

Overview
Welding is the most common method for permanently bonding metal parts. Due to its strength, welding is used to join beams and reinforcing rods. In the program at Francis Tuttle Technology Center you will have an opportunity to gain knowledge for fabrication of a variety of metals including steel, aluminum and stainless steel. You will be prepared to qualify for the American Welding Society D1.1 Structural code using Shielded Metal Arc (SMAW), Gas Metal Arc (GMAW), Flux Cored Arc (FCAW) and Gas Tungsten Arc (GTAW). In addition, you will gain experience on how to use Oxygen/Acetylene and Plasma Cutting equipment. Welding Math and Blueprint Reading is also offered.

Employment Opportunities
Welding Shops, Structural Fabrication Companies, Pipelines, Trailer Manufacturers, Refineries - New Construction and Shut Downs, Power Plants - New Construction and Shut Downs

About This Occupation
Welding can be physically demanding and requires long periods of standing and the ability to lift 50 pounds. Welders must have arm/hand steadiness and good manual dexterity. For success in this career you should also have problem solving skills, the ability to follow directions, and high school level math and reading skills.

Majors:
Structural Welder - 900 hours

Program Instructors Portland Campus:
Daytime – Mike Gregory
Evening – Kyle Hughes, Colby Delgado

Program Instructor Reno Campus:
Daytime only – Richmond Hardimon

FOR MORE INFORMATION, CONTACT US

ROCKWELL CAMPUS
12777 N. ROCKWELL AVE.
405.717.4900

PORTLAND CAMPUS
3500 N.W. 150th ST.
405.717.4308

RENO CAMPUS
7301 W. RENO AVE.
405.717.4611

FINANCIAL AID
ALL CAMPUSES
405.717.4315

Nondiscrimination Policy
It is the policy of Francis Tuttle not to discriminate with regard to race, color, religion, gender, national origin, age, marital or veteran status, or disabilities. This policy shall be followed in the operation of its educational programs and activities, recruitment, admissions, employment practices, and other educational services. Inquiries concerning application of this policy may be directed to the Human Resources Director, who serves as the Coordinator of Title IX; Section 504; and Americans with Disabilities Act for all campuses, at 12777 N. Rockwell, Oklahoma City, OK 73142-2789, (405) 717-7799

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# Structural Welder

**Who Can Attend:** High school juniors, High school seniors, Adults  

**Total Hours Required:** 900

**Financial Aid Eligibility:** This career major is eligible for financial aid (daytime program only).

**Salary Range:** $14.00 - $17.00 per hour

**Program Length:**  
- Full-time daytime: 8 months of instruction  
- Part-time daytime: 16 months of instruction  
- Evening, 4 nights per week: 4.5 semesters  
- Evening, 2 nights per week: 9 semesters  

Program length may vary based on progress rate and/or summer school attendance.

**Locations:** Portland Campus, Bruce Gray Center, Reno Campus

**Times:**  
- Daytime classes: 2 Sessions: 8:00 am - 10:55 am and 12:30 pm - 3:25 pm, Monday - Friday  
  High school students and part-time adult students may enroll in either the AM or PM session. Full-time adult students enroll in both sessions.  
- Evening classes: 6:00 pm to 9:00 pm, two or four evenings a week. Only adult students will be enrolled in evening classes. Portland campus only.

**Licensure/Certifications:** Certification is per American Welding Society (AWS) D1.1 Structural Welder Code

**Costs**

**Tuition and Fees:**  
- In-State Tuition - $1,980.00  
- Out-of-State Tuition - $3,960.00  
- Application Fee (non-refundable) - $15.00  

(Adult students pay tuition/fees)

**Textbooks, Supplies and Certifications (Estimate):**  
- Welding Helmet - $50.00-$80.00  
- Welding Cap - $10.00  
- Welding Gloves - $15.00  
- 100% Cotton Welding Shirt- $25.00- $90.00  
- Leather Shoes- $40.00- $100.00

**Total Estimated Cost:**  
- In-State Adult Students – Up to $2,290.00  
- Out-of-State Adult Students – Up to $4,270.00  
- High School Students – $140.00 to $295.00 for equipment

**Courses:**  
- Welding Core - 130 hours  
- Workforce Staging - 90 hours  
- Intro to Flux Core Arc Welding (FCAW) - 140 hours  
- Intro to Gas Tungsten Arc Welding (GTAW) - 140 hours  

- Metal Cutting Process - 120 hours  
- Intro to Gas Metal Arc Welding (GMAW) - 140 hours  
- Intro to Shielded Metal Arc Welding (SMAW) - 140 hours

**Gainful Employment information:** This program leads to gainful employment in a recognized occupation. For more information on occupational outcomes, job placement rates, on-time completion rates, loan debt, and other useful information, see [http://www.francistuttle.edu/Media/Website%20Resources/GE/StructuralWelder.pdf](http://www.francistuttle.edu/Media/Website%20Resources/GE/StructuralWelder.pdf)