

Welding Technology

Description

Given its role in building and repairing everything from pipelines to spacecraft, welding provides increasing job opportunities as the demand for skilled craftsmen grows. Tulsa Tech's Welding Technology program provides training in the following processes of welding: Shielded Metal Arc, Gas Metal Arc, Flux Cored Arc, and Gas Tungsten Arc welding. Under the direction of experienced professionals, you will develop skills in the areas of oxyacetylene cutting, air carbon arc cutting, and plasma arc cutting. You will study properties of materials and principles of testing, non-destructive and destructive testing, blueprint reading, layout, design and fit up. Additionally you'll learn electrode identification and math applications for welding. You will be required to pass several simulated industrial welder qualification tests for successful completion of this program. You may then confidently enter the workforce and/or apply credit toward an associate degree and beyond.

- Develop professional techniques & skills in the welding industry utilizing various cutting & welding processes
- Interpret blueprints, specifications & welding symbols used by industry professionals in the welding environment
- Analyze the properties of materials & the principles of non-destructive & destructive testing

College Credit

College credit may be available through TCC, RSU, or OSU-Institute of Technology. For more details call the college relations office at 918-828-5205. All college credit is awarded by the college/university.

Campus Location

Lemley Campus (Adult students only)
3420 South Memorial Drive
Tulsa, OK 74145-1390
(918) 828-1000
FAX (918) 828-1009

Peoria Campus (H.S. & returning Peoria Adult students only)
3850 North Peoria
Tulsa, OK 74106-1619
(918) 828-2000
FAX (918) 828-2009

Career Majors/Courses

Combination Welder

Courses

Intro to Welding & Cutting Processes
Metal Preparation & Heat Treatments
Welding Blueprints
Metal Characteristics & Properties
Weld Quality
SMAW Equipment & Set-up
SMAW Electrodes
SMAW Beads & Fillet Welds I
Welding Joint Fit-Up & Adjustment
SMAW Beads & Fillet Welds II
Welding Detail Drawings
SMAW Open V-Groove Welds I
SMAW Open V-Groove Welds II
Plasma Arc Cutting
Air Carbon Arc Cutting and Gouging
GMAW/FCAW Equipment & Set-Up
FCAW Plate
GMAW Plate
SMAW Open Root Pipe Welds
Workforce Staging
GTAW Equipment & Filler Materials
GTAW Plate
GTAW Aluminum Plate
FCAW Pipe
GTAW Carbon Steel Pipe

Employment Opportunities

Tulsa Tech's Career Placement Services team builds partnerships with Tulsa area businesses & industry to create opportunities for work-based experiences and job placement. Job search assistance is provided before and after graduation. Services include with employment information, resume building, refining interview skills and life-time access to the Tulsa Tech Job Connect database. Call Career Placement Services at 918-828-5270 or visit www.tulsatech.edu/jobconnect / email jobconnect@tulsatech.edu.

2009-2010 year completion & placement data:

- Total Enrolled: 98
- Completion: 50%
- Completed on-time: 100%
- Job Placement: 57%
- Returning Students: 43%
- OPE ID: 005311 / CIP: 48.0508

Application Process

Apply ON-LINE at www.tulsatech.edu/apply. Applications can also be obtained in the counseling offices on any of the campuses; at the Career Services Center located on the Memorial Complex; or by calling 918-828-5200.

Area Salary

For information concerning working conditions, physical requirements, employment and job outlook please refer to the Occupational Outlook Handbook (OOH), 2010-11 Edition at <http://www.bls.gov/oco/>.

Salary information can be found at The Occupational Information Network (O*NET) Resource Center at <http://www.onetonline.org/>. O*NET-SOC Code: 51-4121.06

Who Can Attend?

High school students / Adults

Tuition/Fees/Books

- Tuition: \$2,887.50*
- Lab & Required Fees: \$272.50*
- Additional Required Costs: \$548
- Optional Fees: \$253 - \$293

**High school students living in the Tulsa Tech school district are not charged tuition, fees & books.*

Additional required costs: books, equipment, tools, uniforms & supplies.

Scheduling Information

H.S. / 2 school years:

August - May

H.S. sessions:

7:45 - 10:45 A.M. / 11:50 - 2:50 P.M.

Adults / 9-12 months Adult sessions:

Day: 7:45 A.M. - 2:50 P.M.

Check with Admissions Office at 918-828-5260 for start dates.

Credential/Industry Certifications

American Welding Society (AWS) Certification

Financial Aid

Financial assistance is available through several options at Tulsa Tech. For the most up-to-date information, call 918-828-5280 or visit www.tulsatech.edu. Some career majors are eligible for federal financial aid. To apply, go to www.fafsa.ed.gov.