

COURSES

WD 101 Introduction to Welding, Safety and Health introduces welding, cutting, brazing, and soldering processes. The application of welding in agriculture, transportation, and energy sectors. Students also will learn industrial safety and environmental health procedures, specifically personal safety procedures for handling welding equipment and gases.

BP 103 Print Reading and Welding Symbols covers the reading and drawing of schematics and diagrams with emphasis on water and gas plumbing, hydraulic and pneumatic circuits, electrical circuits, and welding diagrams.

WD 102 Basic Arc Welding introduces the gas tungsten arc (TIG) welding process and its application in agriculture and manufacturing. Topics include correct selection of tungsten, polarity, gas, and proper filler rod with emphasis placed on safety, equipment setup, and welding techniques.

WD 201 Oxy-Acetylene Arc Welding includes operation of oxy-fuel welding equipment with emphasis on bead application, profile, and discontinuities. Students will be able to oxy-fuel weld fillets and grooves on plate and pipe in various positions.

WD 202 Gas Metal Arc Welding introduces metal arc (MIG) welding and flux core arc welding processes. Topics include equipment setup and fillet and groove welds. Students will be able to perform fillet welds on carbon steel with prescribed electrodes in the flat, horizontal, and overhead positions.

WD 203 Gas Tungsten Arc Welding is designed to enhance skills with the gas tungsten arc (TIG) welding process and includes setup, joint preparation, and electrode selection with emphasis on manipulative skills in all welding positions on plate and pipe.

It is the policy of the Tarkio Technology Institute not to illegally discriminate on the basis of race, color, national origin, gender, disability, religion, creed, age (for employment), marital status (for programs), sexual orientation, gender identity and socioeconomic status (for programs) in its educational programs and its employment practices. There is a grievance procedure for processing complaints of discrimination. If you have questions or a grievance related to this policy please contact the Institute's Equity Coordinator, Sheridan Mires, 404 North 13th St., Tarkio, MO 64491, (660)623-9071



WELDING



Tarkio Tech

**Rising to Meet the Blue-Collar
Needs of the Region**

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404 North 13th St.
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WELDING TECHNOLOGY PROGRAM

Tarkio Tech offers a Basic Welding Certificate, and a Diploma in Welding Technology. The certificate provides students a complete program in welding, which prepares them for work as apprentice welders. By adding academic courses, the certificate can be turned into a diploma. Students may take any individual course without being in a welding program as long as they meet the course prerequisites.

PROGRAM ENTRY REQUIREMENTS

Before registering for the Welding program, students must demonstrate competence in Mathematics with a minimum of 75 on the arithmetic portion of the College Placement Test, or provide a transcript showing a grade of C or higher in Senior High School Mathematics or by completing MATH098 College Preparation Math with a grade of C or higher. Students must apply for admission to a program and register for single classes through the school's Admission/Registrar Office. To take an individual class, students must meet class prerequisites, have the instructor's permission, and there must be available space in the class.

WELDING TECHNOLOGY DIPLOMA

(Credits for Completion: 27)

TOTAL COST \$5860 includes

One time \$20.00 Admissions Fee

One time \$400.00 Equipment Fee

Welding technology program is designed to give you a sound foundation in the principles, practices, and usages of both gas and electric welding. This diploma program offers you the education necessary to become a skilled welder. Employers of today need employees with welding, cutting, brazing, and metal fabrication skills. During the program, you will receive training in shielded metal arc welding, gas metal arc welding, gas tungsten arc welding, oxy-fuel welding, brazing, and flame cutting. If you have good hand-eye coordination, enjoy working with your hands and your brain, and take satisfaction in a job well done, welding could be the career for you! In addition to completing the certificate in welding, students are required to take Communications, English, and Small Business Management. Communication, English, and Small Business Management are offered during the summer term, which is 8 weeks. Students are required to have 27 credits to receive the Welding Technology Diploma.

Description	Class Hrs	Lab Hrs	Total Weekly Hrs	Credits
WD 101 Intro to Welding, Safety, and Health	2	2	4	3
BP 103 Print Reading and Welding Symbols	2	2	4	3
WD 102 Arc Welding	1	4	5	3
WD 201 Oxy-Acetylene Arc Welding	1	4	5	3
WD 202 Gas Metal Arc Welding	1	4	5	3
WD 203 Gas Tungsten Arc Welding	1	4	5	3
Comm101 - Communications	3	0	3	3
ENG103 - Writing and Inquiry	3	0	3	3
MGT210 —Small Business Management	3	0	3	3
TOTALS	17	20	37	27

BASIC WELDING CERTIFICATE

(Credits for Completion:18)

TOTAL COST \$4280 includes

One time \$20.00 Admissions Fee

One time \$400.00 Equipment Fee

Description	Class Hrs	Lab Hrs	Total Weekly Hrs	Credits
Semester 1				
WD 101 Intro to Welding, Safety, and Health	2	2	4	3
BP 103 Print Reading and Welding Symbols	2	2	4	3
WD 102 Arc Welding	1	4	5	3
Semester 2				
WD 201 Oxy-Acetylene Arc Welding	1	4	5	3
WD 202 Gas Metal Arc Welding	1	4	5	3
WD 203 Gas Tungsten Arc Welding	1	4	5	3
TOTALS	8	20	28	18

