

### Program Description:

The Welding Technology Program is an industry-driven, hands-on program that prepares individuals to meet the rigorous demands of the manufacturing sector.

The welding program delivers skills that an individual needs to be successful in industry. This is accomplished through a hands-on approach and intensive student instructor interaction. The best way to learn to weld is by actually welding. Therefore, the focus is put on work done outside the traditional classroom and in a shop setting, providing the student a true feel for the correct way to weld. A major subject is safety and this program teaches individuals how to protect themselves and their environment while completing the job. Students learn a variety of welding methods including TIG, MIG, and SMAW, as well as metal cutting techniques to ensure they have the necessary skills expected by employers. This program provides new welders a firm foundation to earn certification and thrive in the field.

Comprehensive full- and part-time programs are available, thus enabling current workforce members to improve their technical skills and develop professionally while helping their employers become more competitive.

### Career Outlook:

Employment is projected to experience little or no change over the next decade. Good job opportunities are expected for skilled welders because some employers are reporting difficulty finding qualified workers. About two out of three jobs in this occupation are in manufacturing industries.

### Salary Forecast:

For the most current salary information please refer to the Bureau of Labor Statistics "Occupational Outlook Handbook" found at [www.bls.gov/ooh/](http://www.bls.gov/ooh/).

### Program Admission Requirements:

The Welding Technology Program has admission and candidacy requirements in addition to the Mountwest Community & Technical College admission guidelines.

### Employment Opportunities:

Entry-level positions for which graduates will compete include:

1. General purpose machinery manufacturing
2. Agriculture, construction, and mining machinery manufacturing
3. Commercial and industrial machinery and equipment (excluding automotive and electronic) repair and maintenance
4. Architectural and structural metals manufacturing
5. Motor vehicle body and trailer manufacturing

### Contact Information:

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*Our mission is to prepare students for careers, civic responsibility and life-long learning.*

**Welding Technology – Major Code CW10**

<b>Name:</b>			<b>ID Number 942-</b>	
<b>CAPS SCORES:</b>	<b>MATH:</b>	<b>ENGLISH:</b>	<b>READ:</b>	<b>DOE:</b>
<b>COL 101 Faculty:</b>				
<b>Educational Counselor:</b>				
<b>Faculty Advisor:</b>				

**COURSE REQUIRED**

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
MAT 135	Mathematics for Machinist <sup>1</sup>		3				
MT 105	Industrial Safety		2				
WELD 110	Blueprint Reading for Welding		3				
WELD 120	Shield Metal Arc Welding(SMAW) <sup>2</sup>		6				
WELD 120L	Shield Metal Arc Welding Lab <sup>2</sup>		4				
IT 101	Fundamentals of Computers		3				
WELD 210	Stick Pipe Welding <sup>3</sup>		6				
WELD 210L	Stick Pipe Welding Lab <sup>3</sup>		4				
EC 102	Basic Economics		3				
MFE 220	Computer Aided Design		4				
WELD 121	Gas Metal/Flux Cored Welding		6				
WELD 121L	Gas Metal/Flux Cored Welding Lab		4				
COM 125	Interpersonal Communication <sup>4</sup>		3				
ENL 231	Technical Report Writing		3				
HMN 235	Leadership Studies <sup>5,6</sup>		3				
WELD 299	Welding Theory		3				

**DEVELOPMENTAL COURSES REQUIRED**

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR

<b>HOURS REQUIRED FOR GRADUATION: 60</b>
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<sup>1</sup> MAT 135 has a prerequisite of placement in 100-level math.

<sup>2</sup> WELD 120 and WELD 120L are co-requisites.

<sup>3</sup> WELD 210 and WELD 210L are co-requisites.

<sup>4</sup> COM 125 and HMN 235 have a prerequisite of placement in 100-level reading.

<sup>5</sup> HMN 235 is the capstone course for this program and should be taken during the student's final term.

<sup>6</sup> HMN 235 has a prerequisite of ENL 111.

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