

Welding Technical Diploma

This program prepares individuals for employment in the field of welding. Instruction is provided in various processes and techniques of welding, flux-cored arc welding, plasma arc welding, blueprint reading, weld symbols, and joints. After completion of this program, the student will have covered the skills designated by the American Welding Society (AWS) and will be prepared to take the AWS Entry Level Welder test.

To receive this diploma, the student must:

- Have a cumulative GPA of 2.00 or better in all credit hours that are to be used towards the degree.
- Earn a "C" or better in all coursework.
- Complete the coursework listed below.

PROGRAM OF STUDY

First Semester

	Credit Hours
WELD 1110 Shop Orientation and Safety	3
WELD 1140 Electrical Fundamentals	2
WELD 1210 Oxyfuel Systems	2
WELD 1310 Cutting Processes – CAC/PAC	2
WELD 1411 SMAW Fillet Weld	3
WELD 2110 FCAW – Basic Fillet Welds	3
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CTS: Production Line Welder (Total Hours)	15

Second Semester

	Credit Hours
WELD 2111 FCAW – Groove Welds	3
WELD 2310 GMAW – Basic Fillet Weld	3
WELD 2311 GMAW – Groove Weld	3
WELD 1420 SMAW – V-Groove Open	3
WELD 1510 SMAW – Pipe 2G	3
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	15

Third Semester

	Credit Hours
WELD 1511 SMAW – Pipe 5G	3
WELD 1512 SMAW – Pipe 6G	3
WELD 2220 GTAW – Pipe 5G	3
WELD 2221 GTAW – Pipe 2G	3
WELD 2222 GTAW – Pipe 6G	3
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TD: Welding (Total Hours)	45

Optional Electives:

WELD 1120 Basic Blueprint, Metallurgy & Weld Symbols	3
WELD 1121 Advanced Blueprint Reading	4
WELD 1130 Welding Inspection and Testing	2
WELD 1412 SMAW – V-Groove BU/Gouge	3
WELD 2210 GTAW Basic Multi-Joint	3
WELD 2991 Special Projects I	1
WELD 2993 Special Projects II	2
WELD 2995 Special Projects III	3

WELD 2992	Special Projects IV	2
WELD 2994	Special Projects V	4
WELD 2990	Special Projects VI	6

Below are Certificate Exit Levels:

WELD 1110	Shop Orientation and Safety	3
WELD 1140	Electrical Fundamentals	2
WELD 1210	Oxyfuel Systems	2
WELD 1310	Cutting Processes – CAC/PAC	2
WELD 1411	SMAW Fillet Weld	3
WELD 1412	SMAW – V-Groove BU/Gouge	3
CTS: Structural Welder		15

WELD 1110	Shop Orientation and Safety	3
WELD 1140	Electrical Fundamentals	2
WELD 1210	Oxyfuel Systems	2
WELD 1420	SMAW – V-Groove Open	3
WELD 1510	SMAW – Pipe 2G	3
WELD 1511	SMAW – Pipe 5G	3
WELD 1512	SMAW – Pipe 6G	3
CTS: SMAW Pipe Welder		19

WELD 1110	Shop Orientation and Safety	3
WELD 1140	Electrical Fundamentals	2
WELD 1210	Oxyfuel Systems	2
WELD 2210	GTAW Basic Multi-Joint	3
WELD 2220	GTAW – Pipe 5G	3
WELD 2221	GTAW – Pipe 2G	3
WELD 2222	GTAW – Pipe 6G	3
CTS: GTAW Pipe Welder		19

WELD 1110	Shop Orientation and Safety	3
WELD 1140	Electrical Fundamentals	2
WELD 1210	Oxyfuel Systems	2
WELD 1310	Cutting Processes – CAC/PAC	2
WELD 2110	FCAW – Basic Fillet Welds	3
WELD 2111	FCAW – Groove Welds	3
CTS: FCAW Plate Welder		15

WELD 1110	Shop Orientation and Safety	3
WELD 1140	Electrical Fundamentals	2
WELD 1210	Oxyfuel Systems	2
WELD 1310	Cutting Processes – CAC/PAC	2

WELD 2310	GMAW – Basic Fillet Weld	3
WELD 2311	GMAW – Groove Weld	3
	CTS: GMAW Plate Welder	15

For more information, contact the Division of Technical Education at (225) 359-9201.

Course descriptions can be found in the BRCC College Catalog at www.mybrcc.edu