Welding Technology Combination Welder — Open Admissions Diploma

Maysville Community & Technical College

Program Coordinator: Dean Howard

Contact Information: 606/783-1538 ext. 66347, Rowan Campus, Email: deanb.howard@kctcs.edu
[Academic Plan Code: 4805084019; Academic Program Code: ENTC; CIP Code: 48050800]

Student Name _____ **Student ID** _____

[Academic Plan Code: 4805084019 ; Academic Program Code: 48050800]

General Education & Support Classes	Credit Hours	Semester Taken
Choose one: MAT 110 Applied Mathematics MAT 116 Technical Mathematics MAT 146 Contemporary College Mathematics MAT 150 College Algebra OR MA109 College Algebra Computer Literacy	3	
Choose one: ENG 101 Writing I TEC 200 Technical Communications	3	

6- 9 total credit

1. Required minimum ACT or COMPASS scores

	Math	Reading	Writing
ACT	17	17	17
COMPASS	25 (PREAL)	64	36

2. Curriculum will lead to a Diploma and AAS in GO/TS in area of Welding Technology. (See check sheets)
3. If you change from a certificate to a diploma or a degree program, additional reading and writing requirements must be met.

Core Requirements	Credit Hours	Semester Taken
Choose One: WLD100 Oxy-Fuel Systems WLD110 Cutting Processes	 2 2	
Choose One: WLD101 Oxy-Fuel Systems Lab WLD111 Cutting Processes Lab	 2 3	
WLD120 Shielded Metal Arc Welding	2	
WLD121 Shielded Metal Arc Welding Fillet Lab	3	
Choose One: WLD123 Shielded Metal Arc Welding Groove Welds w/Backing Lab WLD225 Shielded Metal Arc Welding Open Grove Lab	 3 3	
WLD130 Gas Tungsten Arc Welding	2	
WLD131 Gas Tungsten Arc Welding Fillet Lab	3	
WLD133 Gas Tungsten Arc Welding Groove Lab	3	
WLD140 Gas Metal Arc Welding	2	
WLD141 Gas Metal Arc Welding Fillet Lab	3	
WLD143 Gas Metal Arc Welding Groove Lab	3	
WLD171 Blueprint Reading for Welding Lab	3	
WLD220 Welding Certification	2	
WLD221 Welding Certification Lab	3	
Choose One: WLD298 Welding Practicum WLD299 Cooperative Work Experience	 1-6 1-6	
Technical Elective	2-3	

SubTotal Credits Hours: -41-48
Total Credits -47-55

WLD170 Blueprint Reading for Welding	2	

*Technical Electives:
WPP 200 Workplace Principles 3
WLD 151 Basic Welding A 2
WLD 161 Submerged Arc Welding Lab 1
WLD 181 Advanced Welding Systems Lab 1
WLD 191 Plasma Arc Welding Systems Lab 1
WLD 147 Flux Cored Arc Welding Lab 1
WLD 145 Gas Metal Arc Welding Aluminum Lab 1
WLD 251 Welding Automation Lab 1
WLD 253 Pipe Fitting and Template Development Lab 1
WLD 229 Shielded Metal Arc Welding Pipe Lab B 3
WLD 240 Materials Technology 2
BEX 100 Basic Electricity for Non-Majors 3
BEX 101 Basic Electricity Lab for Non-Majors 2
FEX 100 Fundamentals of Electricity for Non-Majors 3
*This list is not all inclusive. Other courses may be approved at the discretion of the program coordinator.

Welding Technology Description:

Welding occupations are primarily concerned with joining, surfacing, or repairing structures or parts made of metal or other weldable materials. The skills and knowledge needed to determine the appropriate welding technique required for a specific project and to successfully perform that technique are gained through course work and practical experience.

Welding Technology Description:

Welding occupations are primarily concerned with joining, surfacing, or repairing structures or parts made of metal or other weldable materials. The skills and knowledge needed to determine the appropriate welding technique required for a specific project and to successfully perform that technique are gained through course work and practical experience.

*Note: Computer literacy must be demonstrated either by competency exam or by successfully completing a computer literacy course.

Welding Technology **Open Admissions**
Maysville Community & Technical College **Certificates**

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WELDER HELPER

[Academic Plan Code: 4805083079; Academic Program Code: .ENTC; CIP CODE: 48050800]

Core Requirements	Credit Hours	Semester Taken	Core Requirements	Credit Hours	Semester Taken
WLD 151 Basic Welding A OR	2		WLD 140 Gas Metal Arc Welding (GMAW) AND	2	
WLD 120 Metal Arc Welding (SMAW) AND	2		WLD 141 Gas Metal Arc Welding (GMAW) Fillet Laboratory OR	3	
WLD 121 Shielded Metal Arc Welding (SMAW) Fillet Laboratory OR	3		WLD 152 Basic Welding B OR IMT100 Welding for Maintenance AND IMT101 Welding for Maintenance Lab	3 2	
WLD 130 Gas Tungsten Arc Welding (GTAW) AND	2				
WLD 131 Gas Tungsten Arc Welding (GTAW) Fillet Laboratory OR	3				
2-5 Credit Hours Total					

GAS WELDER

[Academic Plan Code: 4805083039; Academic Program Code: .ENTC; CIP CODE: 48050800]

Core Requirements	Credit Hours	Semester Taken	Core Requirements	Credit Hours	Semester Taken
WLD 100 Oxy Fuel Systems	2		WLD 101 Oxy Fuel Systems	2	
4 Credit Hours Total					

ARC CUTTER

[Academic Plan Code: 4805083019; Academic Program Code: .ENTC; CIP CODE: 48050800]

Core Requirements	Credit Hours	Semester Taken	Core Requirements	Credit Hours	Semester Taken
WLD 110 Cutting Processes	2		WLD 111 Cutting Processes Laboratory	3	
5 Credit Hours Total					

TACK WELDER

[Academic Plan Code: 4805083069; Academic Program Code: .ENTC; CIP CODE: 48050800]

Core Requirements	Credit Hours	Semester Taken	Core Requirements	Credit Hours	Semester Taken
WLD 170 Blueprint Reading for Welding	2		WLD 130 Gas Tungsten Arc Welding (GTAW) AND	2	
WLD 171 Blueprint Reading for Welding Laboratory	3		WLD 131 Gas Tungsten Arc Welding (GTAW) Fillet Laboratory OR	3	
WLD 151 Basic Welding A OR	2		WLD 140 Gas Metal Arc Welding (GMAW) AND	2	
WLD 120 Shielded Metal Arc Welding (SMAW) AND	2		WLD 141 Gas Metal Arc Welding (GMAW) Fillet Laboratory OR	3	
WLD 121 Shielded Metal Arc Welding (SMAW) Fillet Laboratory OR	3		WLD 152 Basic Welding B	5	
7-10 Credit Hours Total					

PRODUCTION LINE WELDER

[Academic Plan Code: 4602013059; Academic Program Code: .ENTC; CIP CODE: 48050800]

Core Requirements	Credit Hours	Semester Taken	Core Requirements	Credit Hours	Semester Taken
WLD 130 Gas Tungsten Arc Welding (GTAW)	2		WLD 110 Cutting Processes	2	
WLD 131 Gas Tungsten Arc Welding (GTAW) Fillet Laboratory	3		WLD 101 Oxy-Fuel Systems Laboratory OR	2	
WLD 140 Gas Metal Arc Welding (GMAW)	2		WLD 111 Cutting Processes Laboratory	3	
WLD 141 Gas Metal Arc Welding (GMAW) Fillet Laboratory	3		WLD 120 Shielded Metal Arc Welding (SMAW)	2	
WLD 100 Oxy-Fuel Systems OR	2		WLD 121 Shielded Metal Arc Welding (SMAW) Fillet Laboratory	3	
19-20 Credit Hours Total					

ARC WELDER

[Academic Plan Code: 4602013029; Academic Program Code: .ENTC; CIP CODE: 48050800]

Core Requirements	Credit Hours	Semester Taken	Core Requirements	Credit Hours	Semester Taken
WLD 100 Oxy-Fuel Systems OR	2		WLD 131 Gas Tungsten Arc Welding (GTAW) Fillet Laboratory OR	3	
WLD 110 Cutting Processes	2		WLD 133 Gas Tungsten Arc Welding (GTAW) Groove Laboratory	3	
WLD 101 Oxy-Fuel Systems Laboratory OR	2		WLD 140 Gas Metal Arc Welding (GMAW)	2	
WLD 111 Cutting Processes Laboratory	3		WLD 141 Gas Metal Arc Welding (GMAW) Fillet Laboratory OR	3	
WLD 120 Shielded Metal Arc Welding (SMAW)	2		WLD 143 Gas Metal Arc Welding (GMAW) Fillet Groove Laboratory	3	
WLD 121 Shielded Metal Arc Welding (SMAW) Fillet Laboratory OR	3		WLD 170 Blueprint Reading for Welding	2	
WLD 123 Shielded Metal Arc Welding (SMAW) Groove Welds with Backing Laboratory OR WLD225 Shielded Metal ARC Weld Open Groove Lab	3 3		WLD 171 Blueprint Reading for Welding Laboratory	3	
WLD 130 Gas Tungsten Arc Welding (GTAW)	2		WLD 225 Shielded Metal Arc Welding (SMAW) Open Groove Laboratory	3	
24-25 Credit Hours Total					

PIPELINE WELDER

[Academic Plan Code: 4602013049; Academic Program Code: .ENTC; CIP CODE: 48050800]

Core Requirements	Credit Hours	Semester Taken	Core Requirements	Credit Hours	Semester Taken
WLD 100 Oxy-Fuel Systems OR	2		WLD 170 Blueprint Reading for Welding	2	
WLD 110 Cutting Processes	2				
WLD 101 Oxy-Fuel Systems Laboratory OR	2		WLD 171 Blueprint Reading for Welding Laboratory	3	
WLD 111 Cutting Processes Laboratory	3		WLD 220 Welding Certification	2	
WLD 120 Shielded Metal Arc Welding (SMAW)	2		WLD 221 Welding Certification Laboratory	3	
WLD 130 Gas Tungsten Arc Welding (GTAW)	2		WLD 227 Shielded Metal Arc Welding (SMAW) Pipe Laboratory A	3	
WLD 140 Gas Metal Arc Welding (GMAW)	2		WLD 235 Gas Tungsten Arc Welding (GTAW) Pipe Laboratory A	3	
			WLD 245 Gas Metal Arc Welding (GMAW) Pipe Laboratory A	3	
Recommended Electives:					

WLD 229 Shielded Metal Arc Welding (SMAW) Pipe Laboratory B (3) WLD 237 Gas Tungsten Arc Welding (GTAW) Pipe Laboratory B (3) WLD 247 Gas Metal Arc Welding (GMAW) Pipe Laboratory B (3) WLD 253 Pipe Fitting and Template Development Lab (1)
29-40 Credit Hours Total

AWS NATIONAL SKILLS STANDARDS LEVEL I

[Academic Plan Code: 4805083089; Academic Program Code: ENTC; CIP Code: 48050800]

Core Requirements	Credit Hours	Semester Taken	Core Requirements	Credit Hours	Semester Taken
WLD 100 Oxy-Fuel Systems OR	2		WLD 130 Gas Tungsten Arc Welding (GTAW)	2	
WLD 110 Cutting Processes	2		WLD 131 Gas Tungsten Arc Welding (GTAW) Fillet Laboratory	3	
WLD 101 Oxy-Fuel Systems Laboratory OR	2		WLD 133 Gas Tungsten Arc Welding (GTAW) Groove Laboratory	3	
WLD 111 Cutting Processes Laboratory	3		WLD 140 Gas Metal Arc Welding (GMAW)	2	
WLD 120 Shielded Metal Arc Welding (SMAW)	2		WLD 141 Gas Metal Arc Welding (GMAW) Fillet Laboratory	3	
WLD 121 Shielded Metal Arc Welding (SMAW) Fillet Laboratory	3		WLD 143 Gas Metal Arc Welding (GMAW) Fillet Groove Laboratory 3	3	
WLD 123 Shielded Metal Arc Welding (SMAW) Groove Welds with Backing Laboratory OR	3		WLD 170 Blueprint Reading for Welding	2	
WLD 225 Shielded Metal Arc Welding (SMAW) Open Groove Laboratory	3		WLD 171 Blueprint Reading for Welding Laboratory	3	
33-34 Credit Hours Total					

SHIELDED METAL ARC WELDING

[Academic Plan Code: 4805083139; Academic Program Code: ENTC; CIP Code: 48050800]

Core Requirements	Credit Hours	Semester Taken	Core Requirements	Credit Hours	Semester Taken
WLD 120 Shielded Metal Arc Welding (SMAW)	2		WLD 100 Oxy-Fuel Systems OR	2	
WLD 121 Shielded Metal Arc Welding (SMAW) Fillet Laboratory	3		WLD 110 Cutting Processes	2	
WLD 123 Shielded Metal Arc Welding (SMAW) Groove Welds with Backing Laboratory OR	3		WLD 101 Oxy-Fuel Systems Laboratory OR	2	
WLD 225 Shielded Metal Arc Welding (SMAW) Open Groove Laboratory	3		WLD 111 Cutting Processes Laboratory	3	
WLD 170 Blueprint Reading for Welding	2				
WLD 171 Blueprint Reading for Welding Laboratory	3				
17-18 Credit Hours Total					

GAS METAL ARC WELDING

[Academic Plan Code: 4805083149; Academic Program Code: ENTC; CIP Code: 48050800]

Core Requirements	Credit Hours	Semester Taken	Core Requirements	Credit Hours	Semester Taken
WLD 140 Gas Metal Arc Welding (GMAW) AND	2		WLD 100 Oxy-Fuel Systems OR	2	
WLD 141 Gas Metal Arc Welding (GMAW) Fillet Laboratory OR	3		WLD 110 Cutting Processes	2	
WLD 143 Gas Metal Arc Welding (GMAW) Fillet Groove Laboratory OR	3		WLD 101 Oxy-Fuel Systems Laboratory OR	2	
WLD 245 Gas Metal Arc Welding (GMAW) Pipe Laboratory A OR	3		WLD 111 Cutting Processes Laboratory	3	
WLD147 flux Cored Arc Welding (FCAW) Lab	1				
WLD 170 Blueprint Reading for Welding	2				
WLD 171 Blueprint Reading for Welding Laboratory	3				
15-18 Credit Hours Total					

Gas Tungsten Arc Welding

[Academic Plan Code: 4805083159; Academic Program Code: ENTC; CIP Code: 48050800]

Core Requirements	Credit Hours	Semester Taken	Core Requirements	Credit Hours	Semester Taken
WLD 130 Gas Tungsten Arc Welding (GTAW)	2		WLD 100 Oxy-Fuel Systems OR	2	
WLD 131 Gas Tungsten Arc Welding (GTAW) Fillet Laboratory	3		WLD 110 Cutting Processes	(2)	
WLD 133 Gas Tungsten Arc Welding OR (GTAW) Groove Laboratory	3		WLD 101 Oxy-Fuel Systems Laboratory OR	2	
WLD235 Gas Tungsten Arc Welding (GTAW) Pipe Lab A	(3)		WLD 111 Cutting Processes Laboratory	(3)	
WLD 170 Blueprint Reading for Welding	2				
WLD 171 Blueprint Reading for Welding Laboratory	3				
17-18 Credit Hours Total					