

Welding Technology – Combination Welder Diploma

Program Coordinator: Shawn Gannon

E-mail: shawn.gannon@kctcs.edu

Phone: 859-246-6777

Program Website: <https://bluegrass.kctcs.edu/education-training/program-finder/welding-technology.aspx>

Student Name:

Student ID:

Students must meet college readiness benchmarks as identified by the Council on Postsecondary Education or remedy the identified skill deficiencies.

First Semester	Credit Hours	Term	Grade	Prerequisites	Notes
WLD 100 Oxy-Fuel Systems	2			Coreq: WLD 101	
WLD 101 Oxy-Fuel Systems Lab	2			Coreq: WLD 100	
WLD 120 Shielded Metal Arc Welding	2			Coreq: WLD 121	Students must be enrolled in WLD 120, WLD 121 and WLD 123 during the same semester.
WLD 121 Shielded Metal Arc Welding Fillet Lab	3			Coreq: WLD 120	
WLD 123 Shielded Metal Arc Welding Groove with Backing Lab	3				
MAT 116 Technical Mathematics OR MAT 110 Applied Mathematics OR MA 111 Contemporary Mathematics OR MAT 150 College Algebra	3				MAT 116 is recommended.
ENG 101 Writing I	3				
Total Semester Credit Hours	18				

Second Semester	Cr. Hrs.	Term	Grade	Prerequisites	Notes
WLD 130 Gas Tungsten Arc Welding	2			Coreq: WLD 131	Students must be enrolled in WLD 130, WLD 131 and WLD 133 during the same semester.
WLD 131 Gas Tungsten Arc Welding Fillet Lab	3			Coreq: WLD 130	
WLD 133 Gas Tungsten Arc Welding Groove Lab	3				
WLD 170 Blueprint Reading for Welding	2			Coreq: WLD 171	
WLD 171 Blueprint Reading for Welding Lab	3			Coreq: WLD 170	
Computer / Digital Literacy	0 – 3				Computer literacy course or competency exam
Total Semester Credit Hours	13 – 16				

Third Semester	Cr. Hrs.	Term	Grade	Prerequisites	Notes
WLD 140 Gas Metal Arc Welding	2			Coreq: WLD 141	Students must be enrolled in WLD 140, WLD 141 and WLD 143 during the same semester.
WLD 141 Gas Metal Arc Welding Fillet Lab	3			Coreq: WLD 140	
WLD 143 Gas Metal Arc Welding Groove Lab	3				
WLD 220 Welding Certification	2			Coreq: WLD 221	
WLD 221 Welding Certification Lab	3			Coreq: WLD 220	
WLD 298 Welding Practicum OR WLD 299 Cooperative Education Program	1 – 4			Consent of Instructor	
Technical Elective	3				
Total Semester Credit Hours	17 – 20				
Total Diploma Credit Hours	48 – 54				

Graduation Requirements: ☐ 25% or more of Total Diploma Credit Hours must be earned at BCTC
☐ Cumulative GPA must be 2.0 or higher

Advisor Name _____

Advisor Contact _____

Additional Information		
Computer / Digital Literacy requirements can be satisfied by completion of one of the following courses: CAD 103, CIT 105, DLC 100, EDU 204, IMD 100, OST 105, VCC 125 or VCC 150, or by competency exam.		

Technical Elective Courses		
Course	Cr. Hrs.	Prerequisites
WLD 145 Gas Metal Arc Welding Aluminum Lab	1	WLD 140
WLD 147 Flux Cored Arc Welding Lab	1	WLD 140
WLD 151 Basic Welding A	2	WLD 140
WLD 161 Submerged Arc Welding Lab	1	WLD 140
WLD 229 Shielded Metal Arc Welding Pipe Lab B	3	WLD 225
WLD 239 Orbital Tube Welding	1	WLD 130 and WLD 131
WLD 251 Welding Automation Lab	1 – 6	Coreq: WLD 140 and WLD 141
WLD 253 Pipe Fitting and Template Development Lab	1	
WPP 200 Workplace Principles	3	
BEX 100 Basic Electricity for Non-Majors	3	Coreq: BEX 101
BEX 101 Basic Electricity Lab for Non-Majors	2	Coreq: BEX 100
Other courses approved by the Welding Technology Program Coordinator	1 – 3	

Embedded Credentials			
Credential	Title	Requirements	Total Credit Hours
Certificate	ARC Welder	WLD 100, WLD 101, WLD 120, WLD 121, WLD 130, WLD 131, WLD 140, WLD 141, WLD 170, WLD 171	24
Certificate	AWS National Skills Standards Level I	WLD 100, WLD 101, WLD 120, WLD 121, WLD 123, WLD 130, WLD 131, WLD 133, WLD 140, WLD 141, WLD 143, WLD 170, WLD 171	33
Certificate	Gas Metal Arc Welder	WLD 100, WLD 101, WLD 140, WLD 141, WLD 143, WLD 170, WLD 171	17
Certificate	Gas Tungsten Arc Welder	WLD 100, WLD 101, WLD 130, WLD 131, WLD 133, WLD 170, WLD 171	17
Certificate	Gas Welder	WLD 100, WLD 101	4
Certificate	Production Line Welder	WLD 100, WLD 101, WLD 120, WLD 121, WLD 130, WLD 131, WLD 140, WLD 141	19
Certificate	Shielded Metal Arc Welder	WLD 100, WLD 101, WLD 120, WLD 121, WLD 123, WLD 170, WLD 171	17
Certificate	Tack Welder	(WLD 120 and WLD 121) or (WLD 130 and WLD 131) or (WLD 140 and 141), WLD 170, and WLD 171	7
Certificate	Welder Helper	(WLD 120 and WLD 121) or (WLD 130 and WLD 131) or (WLD 140 and 141),	5

Certificate Requirements:

☐ 25% or more of Total Certificate Credit Hours must be earned at BCTC

☐ Grade of C or higher in each course required for certificate