

COMBINATION WELDER - DIPLOMA

Offered at: Ashland Community and Technical College, Big Sandy Community and Technical College, Bluegrass Community and Technical College, Elizabethtown Community and Technical College, Gateway Community and Technical College, Hazard Community and Technical College, Hopkinsville Community College, Jefferson Community and Technical College, Madisonville Community College, Maysville Community and Technical College, Owensboro Community and Technical College, Somerset Community College, Southcentral Kentucky Community and Technical College, Southeast Kentucky Community and Technical College, West Kentucky Community and Technical College

Program Plan Number: 4805084029

Course	Title	Credits
General Education		
ENG 101	Writing I	3
or TEC 200	Technical Communications	
Select one of the following options:		3
MAT 110	Applied Mathematics	
MAT 116	Technical Mathematics	
MAT 146	Contemporary College Mathematics	
MAT 150	College Algebra	
Subtotal		6
Required		
Digital Literacy Course or demonstrated competency ¹		0-3
WLD 100	Oxy-Fuel Systems	2
or WLD 110	Cutting Processes	
WLD 101	Oxy-Fuel Systems Lab	2-3
or WLD 111	Cutting Processes Lab	
WLD 120	Shielded Metal Arc Welding (SMAW)	2
WLD 121	Shielded Metal Arc Welding Fillet Lab (SMAW)	3
WLD 123	Shielded Metal Arc Welding Groove with Backing Lab (SMAW)	3
or WLD 225	Shielded Metal Arc Welding Open Groove Lab	
WLD 130	Gas Tungsten Arc Welding (GTAW)	2
WLD 131	Gas Tungsten Arc Welding Fillet Lab (GTAW)	3
WLD 133	Gas Tungsten Arc Welding Groove Lab (GTAW)	3
WLD 140	Gas Metal Arc Welding (GMAW)	2
WLD 141	Gas Metal Arc Welding Fillet Lab (GMAW)	3
WLD 143	Gas Metal Arc Welding Groove Lab (GMAW)	3
WLD 170	Blueprint Reading for Welding	2
WLD 171	Blueprint Reading for Welding Lab	3
WLD 220	Welding Certification	2
WLD 221	Welding Certification Lab	3
WLD 298	Welding Practicum	1-4
or WLD 299	Cooperative Education Program	
Technical Elective		3
Subtotal		42-49
Total Credits		48-55

¹ Digital Literacy course - 3 credit hours or Demonstrated Competency - 0 credit hours

Technical Electives

Course	Title	Credits
This list is not all inclusive. Other courses may be approved at the discretion of the program coordinator.		
BEX 100	Basic Electricity for Non-Majors	3
BEX 101	Basic Electricity Lab for Non-Majors	2
WLD 145	Gas Metal Arc Welding Aluminum Lab	1
WLD 147	Flux Cored Arc Welding Lab	1
WLD 151	Basic Welding A	2
WLD 152	Basic Welding B	3-5
WLD 161	Submerged Arc Welding Lab	1
WLD 181		1
WLD 229	Shielded Metal Arc Welding Pipe Lab B	3
WLD 239	Orbital Tube Welding	1
WLD 240	Materials Technology	2
WLD 251	Welding Automation Lab	1-6
WLD 253	Pipe Fitting and Template Development Lab	1
WPP 200	Workplace Principles	3