Somerset Community College

Program Overview

Welding

Combination Welder Diploma

somerset.kctcs.edu

PROGRAM COORDINATORS

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CAREERS IN WELDING

There are many career opportunities for welders in...

- Construction (millwrights, ironworkers, pipefitters, boilermakers, and sheet metal trades)
- Manufacturing (transportation, marine, fabrication, and equipment industries)
- Quality Assurance
- Automation

PROGRAM DETAILS

If you marvel at the wonder of architecture and would like to be part of a building's history, then look no further than a welding career. Welders who attend Somerset Community College have many employment opportunities available to them because the instruction and experience they gain is the first step to a successful welding career. And, according to the U.S. Bureau of Labor Statistics, job prospects for welders should be excellent in the upcoming years.

SCC's Welding program is a two-year area of study for students interested in the welding field. Students receive training in several areas of welding including: shielded metal arc welding, gas metal arc welding, and gas tungsten arc welding. There are several completion points in the program. Students are eligible to receive nine certificates, a diploma, and an Associate in Applied Science degree.

Welders often work with metal, and gain skills at this craft by learning and perfecting the method of joining two pieces of metal together with an intense heat source. The heat melts the metal and then permanently bonds the two pieces together. You can find welders working on ships, buildings, automobiles, and other manufacturing companies.

Courses in blueprint reading, shop mathematics, and mechanical drawing are also part of the instruction at SCC. Knowledge of computers is gaining importance, especially for welding machine operators, who are becoming responsible for the programming of computer-controlled machines, including robots and CNC cutting systems.

WELDING CREDENTIALS

CERTIFICATES:

- Gas Welder (4 credit hours)
- Welder Helper (5 credit hours)
- Tack Welder (10 credit hours)
- Shielded Metal Arc Welding (17 credit hours)
- Gas Tungsten Arc Welding (17 credit hours)
- Gas Metal Arc Welding (15-17 credit hours)
- Production Line Welder (19 credit hours)
- Arc Welder (24 credit hours)
- AWS National Skills Standard 1 (33 credit hours)

DIPLOMA:

- Combination Welder (52 credit hours)

ASSOCIATE IN APPLIED SCIENCE DEGREE:

- General Occupational/Technical Studies AAS-GOTS (63 credit hours)

AREAS OF STUDY

Students in Somerset Community College's Welding Technology program receive instruction in:

- Oxy – Fuel Cutting and Welding
- Shielded Metal Arc Welding
- Gas Metal Arc Welding
- Gas Tungsten Arc Welding
- Flux Core Arc Welding
- Welding Automation

COORDINATOR'S NOTES

In addition to training in welding processes, students will receive instruction in the use of equipment and techniques for metal fabrication.

Somerset Community College is a participating organization in American Welding Society SENSE Training and Testing Program. Completers may also receive their State Certification for SMAW and GMAW through the Kentucky Department of Transportation.

Somerset Community College
HIGHER EDUCATION BEGINS HERE

KCTCS is an equal opportunity employer and education institution.

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Advising Planner

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REQUIRED COURSES for LAUREL CAMPUS PROGRAM

APPLIED ACADEMICS REQUIREMENTS (9 HOURS)		Credit	Grade
CIT 105	Introduction to Computing	3 *	_____
ENG 101	Writing 1	3 *	_____
MAT 116	Technical Math	3	_____
TECHNICAL COURSES REQUIRED (41 HOURS)			
WLD 110	Cutting Processes	2	_____
WLD 111	Cutting Processes Lab	3	_____
WLD 120	Shielded Metal Arc Welding	2	_____
WLD 121	Shielded Metal Arc Welding Fillet Lab	3	_____
WLD 123	Shielded Metal Arc Welding Groove Lab	3	_____
WLD 130	Gas Tungsten Arc Welding	2	_____
WLD 131	Gas Tungsten Arc Welding Fillet Lab	3	_____
WLD 133	Gas Tungsten Arc Welding Groove Lab	3	_____
WLD 140	Gas Metal Arc Welding	2	_____
WLD 141	Gas Metal Arc Welding Fillet Lab	3	_____
WLD 143	Gas Metal Arc Welding Groove Lab	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 or >>	3	_____
WLD 299	Welding Co-op	3	_____
APPROVED ELECTIVES (9 HOURS)			
WLD 225	Shielded Metal Arc Welding Open Groove Lab	3	_____
WPP 200	Workplace Principles	3	_____
ISX 100	Industrial Safety	3	_____

**Online Courses*

TOTAL HOURS FOR PROGRAM—52

SEMESTER COURSE LISTING

Class	(Alternative)	Credit
SEMESTER ONE (14 HOURS)		
WLD 110	(_____)	Welder Helper
WLD 111	(_____)	Arc Cutter
WLD 120	(_____)	Tack Welder
WLD 121	(_____)	_____
WLD 170	(_____)	_____
WLD 171	(_____)	_____
SEMESTER TWO (14 HOURS)		
WLD 140	(_____)	Production Line
WLD 141	(_____)	_____
WLD 130	(_____)	_____
WLD 131	(_____)	_____
MAT 116	(_____)	_____
SEMESTER THREE (14 HOURS)		
WLD 143	(_____)	Arc Welder
WLD 133	(_____)	SMAW
WLD 123	(_____)	_____
ENG 101	(_____)	_____
OR TEC 200	(_____)	_____
CIT 105	(_____)	_____
SEMESTER FOUR (10 HOURS)		
WLD 220/Level 1	(_____)	AWS National Skill
WLD 221	(_____)	_____
WLD 298	(_____)	_____
OR WLD 299	(_____)	_____
Approved Electives	(_____)	_____

TOTAL HOURS FOR PROGRAM —52

STUDENT _____ ID NO. _____ DATE _____

SIGNATURE _____ ADVISOR _____