WELDING CERTIFICATE

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metalworking industry. Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses may include math, print reading, metallurgy, welding inspection, and destructive and non-destructive testing providing the student with industry-standard skills developed through classroom training and practical application. Career Opportunities: Graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

Nash Community College CCP Pathway

Welding Technology Certificate C50420FH Total Hours: 15

Recommended Sequence of Courses:

Academic Year One:

- WLD 115 AB and BB SMAW (Stick) Plate (5 Credits)
- ISC 112 Industrial Safety (2 Credits)

Academic Year Two:

WLD 121 AB and BB GMAW (MIG)FCAW/Plate (4 Credits)

Academic Year Three:

WLD 131 GTAW (TIG) Plate (4 Credits)

Nash Community College Additional Certificates and Diploma Welding Technology Certificate - GMAW (MIG) C50420A Total Hours: 14

- WLD 110 Cutting Processes (2 Credits)
- WLD 121 GMAW (MIG) FCAW/Plate (4 Credits)
- WLD 141 Symbols and Specifications (3 Credits)
- BPR 111 Print Reading (2 Credits
- WLD 122 GMAW (MIG) Plate/Pipe (3 Credits)

Welding Technology Certificate - SMAW (Stick) C50420B Total Hours: 16

- WLD 110 Cutting Processes (2 Credits)
- WLD 115 SMAW (Stick) Plate (5 Credits)
- WLD 141 Symbols and Specifications (3 Credits)
- BPR 111 Print Reading (2 Credits)
- WLD 116 SMAW (Stick) Plate/Pipe (4 Credits)

Welding Technology Certificate - GMAW (TIG) C50420C Total Hours: 18

- WLD 110 Cutting Processes (2 Credits)
- WLD 131 GTAW (TIG) Plate (4 Credits)
- WLD 141 Symbols and Specifications (3 Credits)
- BPR 111 Print Reading (2 Credits)
- CIS 110 Introduction to Computers (3 Credits)
- WLD 132 GTAW (TIG) Plate/Pipe (3 Credits)

Welding Technology Certificate - Fabrication C50420D Total Hours: 14

- BRP 111 Print Reading (2 Credits)
- CIS 110 Introduction to Computers (3 Credits)
- DFT 151 CAD I (3 Credits)
- MAC 121 Introduction to CNC (2 Credits)
- WLD 151 Fabrication I (4 Credits)
- WLD 251 Fabrication II (3 Credits)

Welding Technology Certificate - General Welding C50420E Total Hours: 18

- WLD 110 Cutting Processes (2 Credits)
- WLD 115 SMAW (Stick) Plate (5 Credits)
- WLD 121 GMAW (MID) FCAW/Plate (4 Credits)
- WLD 131 GTAW (TIG) Plate (4 Credits)
- WLD 141 Symbols and Specifications (3 Credits)

Industrial Systems Technology Diploma D50240 Total Hours: 47

- ENG 110 Freshman Composition (3 Credits) -or- ENG 111 Writing and Inquiry (3 Credits)
- MAT 110 Mathematical Measurement (3 Credits) -or- MAT 121 Algebra/Trigonometry I (3 Credits)
- WLD 110 Cutting Process (2 Credits)
- WLD 115 SMAW (Stick) Plate (5 Credits)
- WLD 121 GMAW (MIG) FCAW/Plate (4 Credits)
- WLD 131 GTAW (TIG) Plate (4 Credits)
- WLD 141 Symbols and Specifications (3 Credits)
- CIS 110 Introduction to Computer (3 Credits)
- DFT 151 CAC 1 (3 Credits) MAC 121 Introduction to CNC (2 Credits)
- WLD 122 GMAW (MIG) Plate/Pipe (3 Credits)
- WLD 132 GTAW (TIG) Plate/Pipe (3 Credits)
- WLD 151 Fabrication I (4 Credits)
- WLD 251 Fabrication II (3 Credits)
- WLD 261 Certification Practices (2 Credits)
- WLD 262 Inspection and Testing (3 Credits)
- BUS 151 People Skills (3 Credits)
- BUS 240 Business Ethics (3 Credits)
- INT 110 International Business (3 Credits)

Nash Community College Associate's Degree

Welding Technology A50420

Total Hours: 72-73

- COM 110 Introduction to Communication (3) Credits) -or- COM 231 Public Speaking (3
- ENG 110 Freshman Composition (3 Credits) -or-ENG 111 Writing and Inquiry (3 Credits)
- Humanities/Fine Arts Elective (3 Credits)
- MAT 121 Algebra/Trigonometry I (3 Credits) -or-MAT 171 Precalculus Trigonometry (4 Credits)
- Social/Behavioral Science Core Elective (3 Credits)
- WLD 110 Cutting Process (2 Credits)
- WLD 115 SMAW (Stick) Plate (5 Credits)
- WLD 121 GMAW (MIG) FCAW/Plate (4 Credits)
- WLD 131 GTAW (TIG) Plate (4 Credits)
- WLD 141 Symbols and Specifications (3 Credits)
- BPR 111 Print Reading (2 Credits)
- CIS 110 Introduction to Computer (3 Credits)
- DFT 151 CAC 1 (3 Credits)
- ISC 112 Industrial Safety (2 Credits)
- MAC 121 Introduction to CNC (2 Credits) WLD 116 SMAW (Stick) Plate/Pipe (4 Credits)
- WLD 122 GMAW (MIG) Plate/Pipe (3 Credits)
- WLD 132 GTAW (TIG) Plate/Pipe (3 Credits)
- WLD 151 Fabrication I (4 Credits)
- WLD 251 Fabrication II (3 Credits)
- WLD 261 Certification Practices (2 Credits)
- WLD 262 Inspection and Testing (3 Credits)
- WLD 265 Automated Welding/Cutting (4 Credits)
- ACA 122 College Transfer Success (1 Credit)





Ouestions? Please contact Alyssa Womble Director, Career and College Promise 252.451.8473 || alwomble393@nashcc.edu