



Welding Technology

Level 1 Intermediate Certificate Manufacturing, Logistics, & Transportation Pathway

AC Course Number	Required Course Titles	Credit Hours	Semesters Offered	Course Modalities
FIRST YEAR				
First Semester				
<input type="checkbox"/> WLDG 1428	Introduction to Shielded Metal Arc Welding	4	F, Sp	F2F
<input type="checkbox"/> DFTG 1325 or DFTG 1409	Blueprint Reading and Sketching or Basic Computer-Aided Drafting	3-4	F, Sp	Hyb
<input type="checkbox"/> WLDG 1457	Intermediate Shielded Metal Arc Welding	3	F, Sp	F2F
<input type="checkbox"/> TECM 1301	Industrial Mathematics	3	F, Sp	Hyb
Second Semester				
<input type="checkbox"/> WLDG 1337	Introduction to Welding Metallurgy	3	F, Sp	Int
<input type="checkbox"/> WLDG 2443	Advanced shielded Metal Arc Welding	4	F, Sp	F2F
<input type="checkbox"/> WLDG 2432 or HYDR 1409 or MCHN 1438	Welding Automation or Basic Fluid Power I (Hydraulics) or Basic Machine Shop I	4	F, Sp	Hyb
<input type="checkbox"/> WLDG 2413	Intermediate Welding Using Multiple Processes	4	F, Sp	F2F
SECOND YEAR				
First Semester				
<input type="checkbox"/> WLDG 2406	Intermediate Pipe Welding	3	F, Sp	F2F
<input type="checkbox"/> WLDG 1435	Introduction to Pipe Welding	4	F, Sp	F2F
	TOTAL CREDIT HOURS	37-38		

Semesters: Fall (F), Winter (W)Spring (Sp), Summer (Su)

Modalities: Face-to-face (F2F), Internet/online (Int), Hybrid (Hyb)

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Transfer Opportunities

Transfer is possible to Technical schools, and Community Colleges

Marketable Skills

- 1) Work well on a team
- 2) Define, explain and interpret technical information
- 3) Use critical thinking to identify strengths and weakness to determine solutions
- 4) Identify appropriate information sources
- 5) Use math to answer questions
- 6) Schedule/coordinate Operations
- 7) Use current technology to diagnose and solve problems
- 8) Use Troubleshooting to determine causes and decide what to do about it
- 9) Think on your feet

Career Opportunities and Salaries

Entry Level Pipe Welder - \$22.90/hour
Job Shop Welder - \$23.00/hour
Millwright - \$45,249
Pipeline Helper - \$58,680
Repair Work - \$39,500
Shut Down Welder - \$75,000
Structural Welder - \$42,709

Technical Skills

Courses cover Stick welding on Structural steel, and Semi-Automatic welding with Wire for Structural Applications. Entry level Stick welding of V-Groove plate and Pipe.