

KELLOGG COMMUNITY COLLEGE

INDUSTRIAL WELDING

COURSE OPTIONS

Certificate: 25 credits

Associate in Applied Science: 60 credits (combination of industrial welding, technical electives, and general education credit requirements)

All costs are subject to change without notice. Please call 269-965-4137 to verify.

Module Subject Code and Number	Module Title	Credit	Contact Hours
☐ INWE C910-7201	WELDING ORIENTATION		2
The orientation must be completed at the RMTC in Battle Creek prior to registration. Please call 269.965.4137 to verify available orientation times.			
UNIT 05	BASICS OF WELDING		
☐ INWE 05010-7201	WELDING SHOP SAFETY RULES	0.17	4
☐ INWE 05020-7201	JOINTS WELDS POSITIONS	0.13	3
☐ INWE 05030-7201	RULES AND SQUARES	0.13	3
UNIT TOTAL		0.43	10
UNIT 10	OXYACETYLENE WELDING		
☐ INWE 10010-7201	OXY-FUEL WELDING TERMS	0.17	4
☐ INWE 10020-7201	SET UP OXY-FUEL WELD STAT	0.08	2
☐ INWE 10030-7201	RUN BEADS W/WO FILL	0.29	7
☐ INWE 10040-7201	WELD JOINTS FLAT POSITION	1.00	24
UNIT TOTAL		1.54	37
UNIT 15	CUTTING PROCESSES		
☐ INWE 15010-7201	BASIC CUTTING PRACTICES	0.13	3
☐ INWE 15020-7201	CUT FERROUS MET W OXY FUEL	0.33	8
☐ INWE 15030-7201	CUTTING METALS W PLASMA	0.33	8
UNIT TOTAL		0.79	19
UNIT 20	BRAZING AND SOLDERING		
☐ INWE 20010-7201	BRAZ JOINTS FLAT POSITION	0.33	8
☐ INWE 20020-7201	BRAZ V-GROOVE JOINTS	0.21	5
☐ INWE 20030-7201	SILVER BRAZ DISSIMILAR METALS	0.13	3
☐ INWE 20040-7201	LEAD SOLDERING SEAMS	0.25	6
UNIT TOTAL		0.92	22
UNIT 25	SHIELDED METAL ARC WELDING		
☐ INWE 25010-7201	SMAW TERMS DEFINITIONS	0.17	4
☐ INWE 25020-7201	ELECTRODES FOR SMAW	0.21	5
☐ INWE 25030-7201	STRIKE ARC RUN BEADS	0.67	16
☐ INWE 25040-7201	ANALYZE WELD CHARACTERISTICS	0.13	3
☐ INWE 25050-7201	MULTIPASS FILLET WELDS	0.50	12
☐ INWE 25060-7201	WELD SIZE WEAVE TECHNIQUE	0.50	12
☐ INWE 25070-7201	CORNER JOINT FLAT POSITION	0.67	16
☐ INWE 25080-7201	V-GROOVE BUTT W BACKING	0.50	12
☐ INWE 25090-7201	V-GROOVE BUTT WO BACKING	0.67	16
UNIT TOTAL		4.02	96

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UNIT 30 ADVANCED ARC WELDING			
☐ INWE 30010-7201	TEE JOINTS VERTICAL UP	0.58	14
☐ INWE 30020-7201	BUTT W BACK VERTICAL UP	0.46	11
☐ INWE 30030-7201	BUTT WO BACK VERTICAL UP	0.75	18
☐ INWE 30040-7201	TEE JOINTS VERTICAL DOWN	0.29	7
☐ INWE 30050-7201	BUTT W BACK VERTICAL DOWN	0.42	10
☐ INWE 30060-7201	BUTT WO BACK VERTICAL DOWN	0.33	8
☐ INWE 30070-7201	BUTT W BACK HORIZONTAL	0.50	12
☐ INWE 30080-7201	BUTT WO BACK HORIZONTAL	0.50	12
☐ INWE 30090-7201	TEE JOINTS OVERHEAD	0.50	12
☐ INWE 30100-7201	BUTT W BACK OVERHEAD	0.58	14
☐ INWE 30110-7201	BUTT WO BACK OVERHEAD	0.83	20
UNIT TOTAL		5.74	138
UNIT 35 WELDING METALLURGY			
☐ INWE 35010-7201	INTRO TO METALLURGY	0.46	11
☐ INWE 35020-7201	EXAMINE IDENTIFY METALS	0.13	3
☐ INWE 35030-7201	METALLURGY FUND CAST IRON	0.13	3
☐ INWE 35040-7201	METALLURGY FUND STAINLESS	0.13	3
☐ INWE 35050-7201	TESTING METALS	0.42	10
UNIT TOTAL		1.27	30
UNIT 40 GAS METAL ARC WELDING			
☐ INWE 40010-7201	EXPLAINING GMAW	0.29	7
☐ INWE 40020-7201	START ARC RUN BEADS GMAW	0.17	4
☐ INWE 40030-7201	GMAW FCAW WELD ALL POSITIONS	1.67	40
☐ INWE 40040-7201	GMAW OF ALUMINUM	0.67	16
UNIT TOTAL		2.80	67
UNIT 45 GAS TUNGSTEN ARC WELDING			
☐ INWE 45010-7201	EXPLAINING GTAW	0.42	10
☐ INWE 45020-7201	START ARC RUN BEADS GTAW	0.42	10
☐ INWE 45030-7201	GTAW ALUMINUM FLAT POSITION	1.25	30
☐ INWE 45040-7201	BASIC JOINTS STAINLESS	1.25	30
☐ INWE 45050-7201	GTAW ALUMINUM OUT POSITION	1.67	40
UNIT TOTAL		5.01	120
UNIT 50 PIPE WELDING			
☐ INWE 50010-7201	IDENTIFYING PIPE WELDING	0.21	5
☐ INWE 50020-7201	2G FIXED POSITION	0.83	20
☐ INWE 50030-7201	5G FIXED VERTICAL UP	1.25	30
☐ INWE 50040-7201	5G FIXED VERTICAL DOWN	1.04	25

MODULES OFFERED AT THE REGIONAL MANUFACTURING TECHNOLOGY CENTER

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Module Subject Code and Number	Module Title	Credit	Contact Hours
☐ INWE 50050-7201	6G FIXED POSITION	1.04	25
UNIT TOTAL		4.37	105
UNIT 55	SPECIAL APPLICATIONS		
☐ INWE 55010-7201	WELDING BLUEPRINT READING	0.17	4
☐ INWE 55020-7201	FABRICATING A PROJECT	0.50	12
☐ INWE 55030-7201	CAST IRON REPAIR	0.17	4
☐ INWE 55040-7201	HARDSURFACING	0.17	4
☐ INWE 55050-7201	TOOL AND DIE WELDING	0.67	16
UNIT TOTAL		1.68	40
TOTAL		28.57	686

SPECIAL PROJECT MODULES

(These modules cannot be articulated. Students must have instructor approval to register.)

☐ *INWE C710-7201	BASIC WELDING PROJECT	2
☐ *INWE C720-7201	INTERMEDIATE WELDING PROJECT	4
☐ *INWE C730-7201	ADVANCED WELDING PROJECT	6

*Module(s) cannot be paid for using certain types of financial aid. Please direct all inquiries to the staff at the RMTC registration desk.

FOR OFFICE USE ONLY

Instructor Approval _____ Date _____

Total Credit _____ Total Contact _____ Total Cost _____