

KELLOGG COMMUNITY COLLEGE
INDUSTRIAL WELDING
COURSE OPTIONS

FALL 2024

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	Lab Fees	Tuition	Total Cost
<input type="checkbox"/> INWE C910-8230	WELDING ORIENTATION The orientation must be completed at the RMTC in Battle Creek prior to registration. Please call 269.965.4137 to verify available orientation times.		2	0.00	0.00	0.00
UNIT 05 BASICS OF WELDING						
<input type="checkbox"/> INWE 05010-8230	WELDING SHOP SAFETY RULES	0.17	4	4.00	46.50	50.50
<input type="checkbox"/> INWE 05020-8230	JOINTS WELDS POSITIONS	0.13	3	9.00	35.56	44.56
<input type="checkbox"/> INWE 05030-8230	RULES AND SQUARES	0.13	3	9.00	35.56	44.56
UNIT TOTAL		0.43	10	22.00	117.62	139.62
UNIT 10 OXYACETYLENE WELDING						
<input type="checkbox"/> INWE 10010-8230	OXY-FUEL WELDING TERMS	0.17	4	9.00	46.50	55.50
<input type="checkbox"/> INWE 10020-8230	SET UP OXY-FUEL WELD STAT	0.08	2	9.00	21.88	30.88
<input type="checkbox"/> INWE 10030-8230	RUN BEADS W/WO FILL	0.29	7	28.00	79.32	107.32
<input type="checkbox"/> INWE 10040-8230	WELD JOINTS FLAT POSITION	1.00	24	45.00	273.50	318.50
UNIT TOTAL		1.54	37	91.00	421.20	512.20
UNIT 15 CUTTING PROCESSES						
<input type="checkbox"/> INWE 15010-8230	BASIC CUTTING PRACTICES	0.13	3	9.00	35.56	44.56
<input type="checkbox"/> INWE 15020-8230	CUT FERROUS MET W OXY FUEL	0.33	8	31.00	90.26	121.26
<input type="checkbox"/> INWE 15030-8230	CUTTING METALS W PLASMA	0.33	8	33.00	90.26	123.26
UNIT TOTAL		0.79	19	73.00	216.08	289.08
UNIT 20 BRAZING AND SOLDERING						
<input type="checkbox"/> INWE 20010-8230	BRAZ JOINTS FLAT POSITION	0.33	8	41.00	90.26	131.26
<input type="checkbox"/> INWE 20020-8230	BRAZ V-GROOVE JOINTS	0.21	5	34.00	57.44	91.44
<input type="checkbox"/> INWE 20030-8230	SILVER BRAZ DISSIMILAR METALS	0.13	3	35.00	35.56	70.56
<input type="checkbox"/> INWE 20040-8230	LEAD SOLDERING SEAMS	0.25	6	35.00	68.38	103.38
UNIT TOTAL		0.92	22	145.00	251.64	396.64
UNIT 25 SHIELDED METAL ARC WELDING						
<input type="checkbox"/> INWE 25010-8230	SMAW TERMS DEFINITIONS	0.17	4	9.00	46.50	55.50
<input type="checkbox"/> INWE 25020-8230	ELECTRODES FOR SMAW	0.21	5	14.00	57.44	71.44
<input type="checkbox"/> INWE 25030-8230	STRIKE ARC RUN BEADS	0.67	16	45.00	183.25	228.25
<input type="checkbox"/> INWE 25040-8230	ANALYZE WELD CHARACTERISTICS	0.13	3	9.00	35.56	44.56
<input type="checkbox"/> INWE 25050-8230	MULTIPASS FILLET WELDS	0.50	12	45.00	136.75	181.75
<input type="checkbox"/> INWE 25060-8230	WELD SIZE WEAVE TECHNIQUE	0.50	12	29.00	136.75	165.75
<input type="checkbox"/> INWE 25070-8230	CORNER JOINT FLAT POSITION	0.67	16	29.00	186.57	212.25
<input type="checkbox"/> INWE 25080-8230	V-GROOVE BUTT W BACKING	0.50	12	64.00	136.75	200.75
<input type="checkbox"/> INWE 25090-8230	V-GROOVE BUTT WO BACKING	0.67	16	63.00	183.25	246.25
UNIT TOTAL		4.02	96	307.00	1,099.50	1,406.50
UNIT 30 ADVANCED ARC WELDING						
<input type="checkbox"/> INWE 30010-8230	TEE JOINTS VERTICAL UP	0.58	14	45.00	158.63	203.63
<input type="checkbox"/> INWE 30020-8230	BUTT W BACK VERTICAL UP	0.46	11	64.00	125.81	189.81
<input type="checkbox"/> INWE 30030-8230	BUTT WO BACK VERTICAL UP	0.75	18	63.00	205.13	268.13
<input type="checkbox"/> INWE 30040-8230	TEE JOINTS VERTICAL DOWN	0.29	7	29.00	79.32	108.32
<input type="checkbox"/> INWE 30050-8230	BUTT W BACK VERTICAL DOWN	0.42	10	64.00	114.87	178.87
<input type="checkbox"/> INWE 30060-8230	BUT WO BACK VERTICAL DOWN	0.33	8	63.00	90.26	153.26

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UNIT 30 ADVANCED ARC WELDING (CONTINUED)						
<input type="checkbox"/> INWE 30070-8230	BUTT W BACK HORIZONTAL	0.50	12	64.00	136.75	200.75
<input type="checkbox"/> INWE 30080-8230	BUTT WO BACK HORIZONTAL	0.50	12	63.00	136.75	199.75
<input type="checkbox"/> INWE 30090-8230	TEE JOINTS OVERHEAD	0.50	12	29.00	136.75	165.75
<input type="checkbox"/> INWE 30100-8230	BUTT W BACK OVERHEAD	0.58	14	64.00	158.63	222.63
<input type="checkbox"/> INWE 30110-8230	BUTT WO BACK OVERHEAD	0.83	20	63.00	227.01	290.01
UNIT TOTAL		5.74	138	611.00	1,569.91	2,180.91
UNIT 35 WELDING METALLURGY						
<input type="checkbox"/> INWE 35010-8230	INTRO TO METALLURGY	0.46	11	9.00	125.81	134.81
<input type="checkbox"/> INWE 35020-8230	EXAMINE IDENTIFY METALS	0.13	3	14.00	35.56	49.56
<input type="checkbox"/> INWE 35030-8230	METALLURGY FUND CAST IRON	0.13	3	9.00	35.56	44.56
<input type="checkbox"/> INWE 35040-8230	METALLURGY FUND STAINLESS	0.13	3	9.00	35.56	44.56
<input type="checkbox"/> INWE 35050-8230	TESTING METALS	0.42	10	9.00	114.87	123.87
UNIT TOTAL		1.27	30	50.00	347.36	397.36
UNIT 40 GAS METAL ARC WELDING						
<input type="checkbox"/> INWE 40010-8230	EXPLAINING GMAW	0.29	7	34.00	79.32	113.32
<input type="checkbox"/> INWE 40020-8230	START ARC RUN BEADS GMAW	0.17	4	29.00	46.50	75.50
<input type="checkbox"/> INWE 40030-8230	GMAW FCAW WELD ALL POSITIONS	1.67	40	93.00	456.75	549.75
UNIT TOTAL		2.80	67	156.00	582.57	738.57
UNIT 45 GAS TUNGSTEN ARC WELDING						
<input type="checkbox"/> INWE 45010-8230	EXPLAINING GTAW	0.42	10	30.00	114.87	144.87
<input type="checkbox"/> INWE 45020-8230	START ARC RUN BEADS GTAW	0.42	10	29.00	114.87	143.87
<input type="checkbox"/> INWE 45030-8230	GTAW ALUMINUM FLAT POSITION	1.25	30	73.00	341.88	414.88
<input type="checkbox"/> INWE 45040-8230	BASIC JOINTS STAINLESS	1.25	30	57.00	341.88	398.88
<input type="checkbox"/> INWE 45050-8230	GTAW ALUMINUM OUT POSITION	1.67	40	83.00	456.75	539.75
UNIT TOTAL		5.01	120	272.00	1,370.25	1,642.25
TOTAL		21.85	525	1,727.00	5,976.13	7,703.13

FOR OFFICE USE ONLY

Instructor Approval _____ Date _____

Total Credit _____ Total Contact _____ Total Cost _____