

KELLOGG COMMUNITY COLLEGE
INDUSTRIAL WELDING
COURSE OPTIONS

SPRING 2022

Certificate: 25 credits (minimum requirement for certificate cannot be completed entirely at this location)

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		2	0.00	0.00	0.00
The orientation must be completed during open lab hours at Hastings High School, or at the RMTC in Battle Creek, prior to initial registration. Please call 269.965.4137 to verify available orientation times.						
UNIT 05 BASICS OF WELDING						
<input type="checkbox"/> INWE 05010-8230	WELDING SHOP SAFETY RULES	0.17	4	4.00	43.86	47.86
<input type="checkbox"/> INWE 05020-8230	JOINTS WELDS POSITIONS	0.13	3	9.00	33.54	42.54
<input type="checkbox"/> INWE 05030-8230	RULES AND SQUARES	0.13	3	9.00	33.54	42.54
UNIT TOTAL		0.43	10	22.00	110.94	132.94
UNIT 10 OXYACETYLENE WELDING						
<input type="checkbox"/> INWE 10010-8230	OXY-FUEL WELDING TERMS	0.17	4	9.00	43.86	52.86
<input type="checkbox"/> INWE 10020-8230	SET UP OXY-FUEL WELD STAT	0.08	2	9.00	20.64	29.64
<input type="checkbox"/> INWE 10030-8230	RUN BEADS W/WO FILL	0.29	7	28.00	74.82	102.82
<input type="checkbox"/> INWE 10040-8230	WELD JOINTS FLAT POSITION	1.00	24	45.00	258.00	303.00
UNIT TOTAL		1.54	37	91.00	397.32	488.32
UNIT 15 CUTTING PROCESSES						
<input type="checkbox"/> INWE 15010-8230	BASIC CUTTING PRACTICES	0.13	3	9.00	33.54	42.54
<input type="checkbox"/> INWE 15020-8230	CUT FERROUS MET W OXY FUEL	0.33	8	31.00	85.14	116.14
<input type="checkbox"/> INWE 15030-8230	CUTTING METALS W PLASMA	0.33	8	33.00	85.14	118.14
UNIT TOTAL		0.79	19	73.00	203.82	276.82
UNIT 20 BRAZING AND SOLDERING						
<input type="checkbox"/> INWE 20010-8230	BRAZ JOINTS FLAT POSITION	0.33	8	41.00	85.14	126.14
<input type="checkbox"/> INWE 20020-8230	BRAZ V-GROOVE JOINTS	0.21	5	34.00	54.18	88.18
<input type="checkbox"/> INWE 20030-8230	SILVER BRAZ DISSIMILAR METALS	0.13	3	35.00	33.54	68.54
<input type="checkbox"/> INWE 20040-8230	LEAD SOLDERING SEAMS	0.25	6	35.00	64.50	99.50
UNIT TOTAL		0.92	22	145.00	237.36	382.36
UNIT 25 SHIELDED METAL ARC WELDING						
<input type="checkbox"/> INWE 25010-8230	SMAW TERMS DEFINITIONS	0.17	4	9.00	43.86	52.86
<input type="checkbox"/> INWE 25020-8230	ELECTRODES FOR SMAW	0.21	5	14.00	54.18	68.18
<input type="checkbox"/> INWE 25030-8230	STRIKE ARC RUN BEADS	0.67	16	45.00	172.86	217.86
<input type="checkbox"/> INWE 25040-8230	ANALYZE WELD CHARACTERISTICS	0.13	3	9.00	33.54	42.54
<input type="checkbox"/> INWE 25050-8230	MULITPASS FILLET WELDS	0.50	12	45.00	129.00	174.00
<input type="checkbox"/> INWE 25060-8230	WELD SIZE WEAVE TECHNIQUE	0.50	12	29.00	129.00	158.00
<input type="checkbox"/> INWE 25070-8230	CORNER JOINT FLAT POSITION	0.67	16	29.00	172.86	201.86
<input type="checkbox"/> INWE 25080-8230	V-GROOVE BUTT W BACKING	0.50	12	64.00	129.00	193.00
<input type="checkbox"/> INWE 25090-8230	V-GROOVE BUTT WO BACKING	0.67	16	63.00	172.86	235.86
UNIT TOTAL		4.02	96	307.00	1037.16	1344.16
UNIT 30 ADVANCED ARC WELDING						
<input type="checkbox"/> INWE 30010-8230	TEE JOINTS VERTICAL UP	0.58	14	45.00	149.64	194.64
<input type="checkbox"/> INWE 30020-8230	BUTT W BACK VERTICAL UP	0.46	11	64.00	118.68	182.68
<input type="checkbox"/> INWE 30030-8230	BUTT WO BACK VERTICAL UP	0.75	18	63.00	193.50	256.50
<input type="checkbox"/> INWE 30040-8230	TEE JOINTS VERTICAL DOWN	0.29	7	29.00	74.82	103.82
<input type="checkbox"/> INWE 30050-8230	BUTT W BACK VERTICAL DOWN	0.42	10	64.00	108.36	172.36
<input type="checkbox"/> INWE 30060-8230	BUTT WO BACK VERTICAL DOWN	0.33	8	63.00	85.14	148.14

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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	129.00	193.00
<input type="checkbox"/> INWE 30080-8230	BUTT WO BACK HORIZONTAL	0.50	12	63.00	129.00	192.00
<input type="checkbox"/> INWE 30090-8230	TEE JOINTS OVERHEAD	0.50	12	29.00	129.00	158.00
<input type="checkbox"/> INWE 30100-8230	BUTT W BACK OVERHEAD	0.58	14	64.00	149.64	213.64
<input type="checkbox"/> INWE 30110-8230	BUTT WO BACK OVERHEAD	0.83	20	63.00	214.14	277.14
UNIT TOTAL		5.74	138	611.00	1480.92	2091.92
UNIT 35 WELDING METALLURGY						
<input type="checkbox"/> INWE 35010-8230	INTRO TO METALLURGY	0.46	11	9.00	118.68	127.68
<input type="checkbox"/> INWE 35020-8230	EXAMINE IDENTIFY METALS	0.13	3	14.00	33.54	47.54
<input type="checkbox"/> INWE 35030-8230	METALLURGY FUND CAST IRON	0.13	3	9.00	33.54	42.54
<input type="checkbox"/> INWE 35040-8230	METALLURGY FUND STAINLESS	0.13	3	9.00	33.54	42.54
<input type="checkbox"/> INWE 35050-8230	TESTING METALS	0.42	10	9.00	108.36	117.36
UNIT TOTAL		1.27	30	50.00	327.66	377.66
UNIT 40 GAS METAL ARC WELDING						
<input type="checkbox"/> INWE 40010-8230	EXPLAINING GMAW	0.29	7	34.00	74.82	108.82
<input type="checkbox"/> INWE 40020-8230	START ARC RUN BEADS GMAW	0.17	4	29.00	43.86	72.86
<input type="checkbox"/> INWE 40030-8230	GMAW FCAW WELD ALL POSITIONS	1.67	40	93.00	430.86	523.86
UNIT TOTAL		2.13	51	156.00	549.54	705.54
UNIT 45 GAS TUNGSTEN ARC WELDING						
<input type="checkbox"/> INWE 45010-8230	EXPLAINING GTAW	0.42	10	30.00	108.36	138.36
<input type="checkbox"/> INWE 45020-8230	START ARC RUN BEADS GTAW	0.42	10	29.00	108.36	137.36
<input type="checkbox"/> INWE 45030-8230	GTAW ALUMINUM FLAT POSITION	1.25	30	73.00	322.50	395.50
<input type="checkbox"/> INWE 45040-8230	BASIC JOINTS STAINLESS	1.25	30	57.00	322.50	379.50
<input type="checkbox"/> INWE 45050-8230	GTAW ALUMINUM OUT POSITION	1.67	40	83.00	430.86	513.86
UNIT TOTAL		5.01	120	272.00	1292.58	1564.58
TOTAL		21.85	525	1727.00	5637.30	7364.30

*Please note: Kellogg Community College offers additional Industrial Welding courses at the Regional Manufacturing Technology Center in Battle Creek.

FOR OFFICE USE ONLY

Instructor Approval _____ Date _____

Total Credit _____ Total Contact _____ Total Cost _____