

# KELLOGG COMMUNITY COLLEGE

## INDUSTRIAL PIPEFITTING

SUMMER 2024

### COURSE OPTIONS

Certificate: 25 credits

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

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Module Subject Code and Number	Module Title	Credit	Contact Hours	Lab Fees	Tuition	Total Cost
<input type="checkbox"/> INPF C910-7201	PIPEFITTING ORIENTATION		2	0.00	0.00	0.00
The orientation must be completed at the RMTC in Battle Creek prior to registration. Please call 269.965.4137 to verify available orientation times.						
<b>UNIT 05 SAFETY</b>						
<input type="checkbox"/> INPF 05011-7201	PIPEFITTING SAFETY	1.00	24	19.00	269.50	288.50
<b>UNIT TOTAL</b>		<b>1.00</b>	<b>24</b>	<b>19.00</b>	<b>269.50</b>	<b>288.50</b>
<b>UNIT 10 PIPEFITTING SCIENCE</b>						
<input type="checkbox"/> INPF 10011-7201	PIPEFITTING SCIENCE	0.25	6	17.00	67.38	84.38
<b>UNIT TOTAL</b>		<b>0.25</b>	<b>6</b>	<b>17.00</b>	<b>67.38</b>	<b>84.38</b>
<b>UNIT 15 BLUEPRINT READING</b>						
<input type="checkbox"/> INPF 15011-7201	INTRO TO BLUEPRINT READING	0.33	8	13.00	88.94	101.94
<input type="checkbox"/> INPF 15021-7201	IDENTIFYING PIPING SYMBOLS	0.25	6	11.00	67.38	78.38
<input type="checkbox"/> INPF 15031-7201	READ INTERPRET PIPING BLUEPRINT	0.25	6	11.00	67.38	78.38
<input type="checkbox"/> INPF 15041-7201	TROUBLESHOOTING BLUEPRINTS	0.08	2	6.00	21.56	27.56
<b>UNIT TOTAL</b>		<b>0.91</b>	<b>22</b>	<b>41.00</b>	<b>245.26</b>	<b>286.26</b>
<b>UNIT 20 INTRODUCTION TO PIPEFITTING</b>						
<input type="checkbox"/> INPF 20011-7201	PIPEFITTING TOOLS MATERIALS	0.25	6	23.00	67.38	90.38
<input type="checkbox"/> INPF 20021-7201	TYPES OF PIPING	0.42	10	17.00	113.19	130.19
<input type="checkbox"/> INPF 20031-7201	SPECIALTY PIPING	0.33	8	6.00	88.94	94.94
<input type="checkbox"/> INPF 20041-7201	PIPE FITTINGS & PRESSURE LOSS	0.25	6	19.00	67.38	86.38
<input type="checkbox"/> INPF 20051-7201	PIPING CONNECTIONS	0.33	8	21.00	88.94	109.94
<input type="checkbox"/> INPF 20061-7201	PIPE CUTTING AND THREADS	0.17	4	6.00	45.82	51.82
<input type="checkbox"/> INPF 20071-7201	PIPING FLANGES	0.42	10	21.00	113.19	134.19
<input type="checkbox"/> INPF 20081-7201	PIPING STAINLESS	0.33	8	36.00	88.94	124.94
<b>UNIT TOTAL</b>		<b>2.50</b>	<b>60</b>	<b>149.00</b>	<b>673.78</b>	<b>822.78</b>
<b>UNIT 25 MATHEMATICS FOR PIPEFITTING</b>						
<input type="checkbox"/> INPF 25012-7201	PIPEFITTING MATH 1	0.17	4	24.00	45.82	69.82
<input type="checkbox"/> INPF 25022-7201	PIPEFITTING MATH 2	0.25	6	24.00	67.38	91.38
<input type="checkbox"/> INPF 25032-7201	PIPEFITTING MATH 3	0.63	15	84.00	169.79	253.79
<input type="checkbox"/> INPF 25042-7201	PIPEFITTING MATH 4	0.25	6	24.00	67.38	91.38
<input type="checkbox"/> INPF 25052-7201	PIPEFITTING MATH 5	0.25	6	24.00	67.38	91.38
<input type="checkbox"/> INPF 25062-7201	PIPEFITTING MATH 6	0.83	20	84.00	223.69	307.69
<input type="checkbox"/> INPF 25072-7201	PIPEFITTING MATH 7	0.25	6	24.00	67.38	91.38
<b>UNIT TOTAL</b>		<b>2.63</b>	<b>63</b>	<b>288.00</b>	<b>708.82</b>	<b>996.82</b>
<b>UNIT 30 PIPEFITTING</b>						
<input type="checkbox"/> INPF 30011-7201	BASIC RATIO PIPE CAPACITIES	0.25	6	35.00	67.38	102.38
<input type="checkbox"/> INPF 30021-7201	VALVES MANUAL	0.42	10	32.00	113.19	145.19
<input type="checkbox"/> INPF 30031-7201	VALVES SELF CONTAINED	0.29	7	16.00	78.16	94.16
<input type="checkbox"/> INPF 30041-7201	PIPING SUPPORT	0.25	6	36.00	67.38	103.38
<input type="checkbox"/> INPF 30051-7201	PVC PIPING	0.29	7	24.00	78.16	102.16
<input type="checkbox"/> INPF 30061-7201	PIPING COMPRESSION	0.25	6	6.00	67.38	73.38
<input type="checkbox"/> INPF 30071-7201	SOLDERING AND BRAZING	0.63	15	21.00	169.79	190.79
<input type="checkbox"/> INPF 30081-7201	TUBE BENDING	0.29	7	34.00	78.16	112.16

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<b>UNIT 30 PIPEFITTING (CONTINUED)</b>						
<input type="checkbox"/> INPF 30091-7201	PRESSURE TAP & TRACING	0.42	10	41.00	113.19	154.19
<input type="checkbox"/> INPF 30101-7201	VICTAULIC	0.33	8	6.00	88.94	94.94
<input type="checkbox"/> INPF 30111-7201	FIBERGLASS REINFORCED PIPE	0.08	2	41.00	21.56	62.56
<input type="checkbox"/> INPF 30121-7201	GREENTHREAD	0.08	2	6.00	21.56	27.56
<input type="checkbox"/> INPF 30131-7201	CPVC PIPING	0.08	2	31.00	21.56	52.56
<b>UNIT TOTAL</b>		<b>3.66</b>	<b>88</b>	<b>329.00</b>	<b>986.41</b>	<b>1315.41</b>
<b>UNIT 35 PLUMBING</b>						
<input type="checkbox"/> INPF 35011-7201	PURPOSE OF THE PLUMBING CODE	0.17	4	12.00	45.82	57.82
<input type="checkbox"/> INPF 35021-7201	FIXTURES & APPLIANCES	0.17	4	12.00	45.82	57.82
<input type="checkbox"/> INPF 35031-7201	POTABLE WATER PROTECTION	0.42	10	42.00	113.19	155.19
<input type="checkbox"/> INPF 35041-7201	SEWAGE SYSTEMS	0.21	5	12.00	56.60	68.60
<input type="checkbox"/> INPF 35051-7201	DRAINS	0.21	5	12.00	56.60	68.60
<input type="checkbox"/> INPF 35061-7201	TRAPS INTERCEPTORS BACKWATER	0.42	10	12.00	113.19	125.19
<input type="checkbox"/> INPF 35071-7201	STACKS & ROUGH-IN SHEETS	0.17	4	12.00	45.82	57.82
<input type="checkbox"/> INPF 35081-7201	PURPOSE OF ASME CODE	0.08	2	6.00	21.56	27.56
<input type="checkbox"/> INPF 35091-7201	USING THE ASME CODE	0.17	4	6.00	45.82	51.82
<input type="checkbox"/> INPF 35101-7201	IMPORTANCE OF SAFETIES	0.08	2	53.00	21.56	74.56
<input type="checkbox"/> INPF 35111-7201	PRESSURE TEST AND LEAK TEST	0.29	7	6.00	78.16	84.16
<input type="checkbox"/> INPF 35121-7201	VENTING DRAINAGE SYSTEMS	0.21	5	6.00	56.60	62.60
<input type="checkbox"/> INPF 35122-7201	GAS SYSTEMS PIPING	0.13	3	6.00	35.04	41.04
<input type="checkbox"/> INPF 35131-7201	INSTALLING WATER HEATERS	0.17	4	6.00	45.82	51.82
<b>UNIT TOTAL</b>		<b>2.90</b>	<b>69</b>	<b>203.00</b>	<b>781.60</b>	<b>984.60</b>
<b>UNIT 40 FIRE PROTECTION</b>						
<input type="checkbox"/> INPF 40011-7201	NFPA 13 CODE BOOK	0.29	7	26.00	78.16	104.16
<input type="checkbox"/> INPF 40021-7201	SPRINKLER HEADS	0.21	5	6.00	56.60	62.60
<input type="checkbox"/> INPF 40031-7201	WET FIRE PROTECTION SYSTEM	0.21	5	11.00	56.60	67.60
<input type="checkbox"/> INPF 40041-7201	DRY FIRE PROTECTION SYSTEM	0.21	5	11.00	56.60	67.60
<input type="checkbox"/> INPF 40051-7201	DELUGE & FOAM FIRE PROTECTION	0.21	5	6.00	56.60	62.60
<b>UNIT TOTAL</b>		<b>1.13</b>	<b>27</b>	<b>60.00</b>	<b>304.56</b>	<b>364.56</b>
<b>UNIT 45 THERMODYNAMICS OF HEAT</b>						
<input type="checkbox"/> INPF 45011-7201	FORCE AND MOTION	0.08	2	8.00	21.56	29.56
<input type="checkbox"/> INPF 45021-7201	LAWS OF MOTION	0.08	2	8.00	21.56	29.56
<input type="checkbox"/> INPF 45031-7201	CONSERVATION OF MOMENTUM	0.08	2	8.00	21.56	29.56
<input type="checkbox"/> INPF 45041-7201	GRAVITY	0.08	2	8.00	21.56	29.56
<input type="checkbox"/> INPF 45051-7201	ATOMS AND MOLECULES	0.08	2	8.00	21.56	29.56
<input type="checkbox"/> INPF 45061-7201	SOLIDS	0.08	2	8.00	21.56	29.56
<input type="checkbox"/> INPF 45071-7201	LIQUIDS AND GASES	0.08	2	8.00	21.56	29.56
<input type="checkbox"/> INPF 45081-7201	TEMPERATURE AND HEAT	0.08	2	8.00	21.56	29.56
<input type="checkbox"/> INPF 45091-7201	CHANGE OF STATE	0.08	2	8.00	21.56	29.56
<b>UNIT TOTAL</b>		<b>0.72</b>	<b>18</b>	<b>72.00</b>	<b>194.04</b>	<b>266.04</b>
<b>UNIT 50 EXPANSION</b>						
<input type="checkbox"/> INPF 50011-7201	EXPANSION JOINTS	0.08	2	6.00	21.56	27.56
<b>UNIT TOTAL</b>		<b>0.08</b>	<b>2</b>	<b>6.00</b>	<b>21.56</b>	<b>27.56</b>

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<b>UNIT 55 PUMPS</b>						
<input type="checkbox"/> INPF 55011-7201	CENTRIFUGAL PUMPS	0.42	10	6.00	113.19	119.19
<input type="checkbox"/> INPF 55021-7201	POSITIVE DISPLACEMENT PUMPS	0.42	10	26.00	113.19	139.19
<b>UNIT TOTAL</b>		<b>0.84</b>	<b>20</b>	<b>32.00</b>	<b>226.38</b>	<b>258.38</b>
<b>UNIT 60 FLOW CONTROL</b>						
<input type="checkbox"/> INPF 60011-7201	CONTROL THEORY 1	0.33	8	17.00	88.94	105.94
<input type="checkbox"/> INPF 60021-7201	CONTROL THEORY 2	0.13	3	17.00	35.04	52.04
<input type="checkbox"/> INPF 60031-7201	CONTROL THEORY 3	0.33	8	17.00	88.94	105.94
<input type="checkbox"/> INPF 60041-7201	CONTROL VALVES	0.25	6	6.00	67.38	73.38
<input type="checkbox"/> INPF 60051-7201	REGULATORS	0.25	6	6.00	67.38	73.38
<input type="checkbox"/> INPF 60061-7201	PRESSURE REDUCING VALVES	0.67	16	6.00	180.57	186.57
<input type="checkbox"/> INPF 60071-7201	ELECTROMECHANICAL CONTROLS	0.25	6	6.00	67.38	73.38
<input type="checkbox"/> INPF 60081-7201	PNEUMATIC CONTROLS	0.67	16	6.00	180.57	186.57
<input type="checkbox"/> INPF 60091-7201	FLOW MEASUREMENT	0.29	7	6.00	78.16	84.16
<b>UNIT TOTAL</b>		<b>3.17</b>	<b>76</b>	<b>87.00</b>	<b>854.36</b>	<b>941.36</b>
<b>UNIT 65 COMPRESSED AIR</b>						
<input type="checkbox"/> INPF 65011-7201	TYPES OF AIR COMPRESSORS	0.13	3	21.00	35.04	56.04
<input type="checkbox"/> INPF 65021-7201	SUPPORTING COMPONENTS	0.25	6	21.00	67.38	88.38
<b>UNIT TOTAL</b>		<b>0.38</b>	<b>9</b>	<b>42.00</b>	<b>102.42</b>	<b>144.42</b>
<b>UNIT 70 STEAM</b>						
<input type="checkbox"/> INPF 70011-7201	STEAM SAFETY	0.13	3	6.00	35.04	41.04
<input type="checkbox"/> INPF 70021-7201	FUNDAMENTALS OF STEAM	0.25	6	6.00	67.38	73.38
<input type="checkbox"/> INPF 70031-7201	STEAM TRAPS	0.67	16	6.00	180.57	186.57
<input type="checkbox"/> INPF 70041-7201	WATER HAMMER	0.08	2	6.00	21.56	27.56
<input type="checkbox"/> INPF 70051-7201	STEAM COILS AND RADIATORS	0.33	8	6.00	88.94	94.94
<input type="checkbox"/> INPF 70061-7201	VACUUM BREAKERS	0.17	4	6.00	45.82	51.82
<input type="checkbox"/> INPF 70071-7201	STEAM HEAT EXCHANGERS	0.42	10	6.00	113.19	119.19
<b>UNIT TOTAL</b>		<b>2.05</b>	<b>49</b>	<b>42.00</b>	<b>552.50</b>	<b>594.50</b>
<b>UNIT 75 BOILERS</b>						
<input type="checkbox"/> INPF 75011-7201	FUNDAMENTALS OF BOILERS	0.17	4	21.00	45.82	66.82
<input type="checkbox"/> INPF 75021-7201	HOT WATER BOILERS	0.42	10	12.00	113.19	125.19
<input type="checkbox"/> INPF 75031-7201	AIR TRAPS	0.08	2	6.00	21.56	27.56
<input type="checkbox"/> INPF 75041-7201	LOW PRESSURE BOILERS	0.29	7	12.00	78.16	90.16
<input type="checkbox"/> INPF 75051-7201	HIGH PRESSURE BOILERS	0.54	13	15.00	145.53	160.53
<input type="checkbox"/> INPF 75061-7201	BOILER CONTROLS	0.25	6	85.00	67.38	152.38
<input type="checkbox"/> INPF 75071-7201	BOILER SAFETIES	0.08	2	6.00	21.56	27.56
<input type="checkbox"/> INPF 75081-7201	BOILER VALVES	0.17	4	12.00	45.82	57.82
<input type="checkbox"/> INPF 75091-7201	BOILER BLOWDOWN	0.08	2	15.00	21.56	36.56
<input type="checkbox"/> INPF 75101-7201	CONDENSATE RETURN	0.50	12	6.00	134.75	140.75
<input type="checkbox"/> INPF 75111-7201	BOILER FEED WATER	0.25	6	12.00	67.38	79.38
<input type="checkbox"/> INPF 75121-7201	TROUBLESHOOTING BOILERS	0.25	6	6.00	67.38	73.38
<input type="checkbox"/> INPF 75131-7201	BOILER PREVENTATIVE MAINT INS	0.25	6	6.00	67.38	73.38
<b>UNIT TOTAL</b>		<b>3.33</b>	<b>80</b>	<b>214.00</b>	<b>897.47</b>	<b>1,111.47</b>

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<b>UNIT 80 PIPING MAINTENANCE</b>						
<input type="checkbox"/> INPF 80011-7201	PIPING MAINTENANCE	0.50	12	6.00	134.75	140.75
<b>UNIT TOTAL</b>		<b>0.50</b>	<b>12</b>	<b>6.00</b>	<b>134.75</b>	<b>140.75</b>
<b>TOTAL</b>		<b>26.05</b>	<b>627</b>	<b>1,607.00</b>	<b>7,020.79</b>	<b>8,627.79</b>

**FOR OFFICE USE ONLY**

Instructor Approval \_\_\_\_\_ Date \_\_\_\_\_

Total Credit \_\_\_\_\_ Total Contact \_\_\_\_\_ Total Cost \_\_\_\_\_