

KELLOGG COMMUNITY COLLEGE
INDUSTRIAL PIPEFITTING
COURSE OPTIONS

SUMMER 2022

Certificate: 25 credits

Associate in Applied Science: 60 credits (combination of industrial pipefitting, 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"/> 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.						
UNIT 05 SAFETY						
<input type="checkbox"/> INPF 05011-7201	PIPEFITTING SAFETY	1.00	24	19.00	258.00	277.00
UNIT TOTAL		1.00	24	19.00	258.00	277.00
UNIT 10 PIPEFITTING SCIENCE						
<input type="checkbox"/> INPF 10011-7201	PIPEFITTING SCIENCE	0.25	6	17.00	64.50	81.50
UNIT TOTAL		0.25	6	17.00	64.50	81.50
UNIT 15 BLUEPRINT READING						
<input type="checkbox"/> INPF 15011-7201	INTRO TO BLUEPRINT READING	0.33	8	13.00	85.14	98.14
<input type="checkbox"/> INPF 15021-7201	IDENTIFYING PIPING SYMBOLS	0.25	6	11.00	64.50	75.50
<input type="checkbox"/> INPF 15031-7201	READ INTERPRET PIPING BLUEPRINT	0.25	6	11.00	64.50	75.50
<input type="checkbox"/> INPF 15041-7201	TROUBLESHOOTING BLUEPRINTS	0.08	2	6.00	20.64	26.64
UNIT TOTAL		0.91	22	41.00	234.78	275.78
UNIT 20 INTRODUCTION TO PIPEFITTING						
<input type="checkbox"/> INPF 20011-7201	PIPEFITTING TOOLS MATERIALS	0.25	6	23.00	64.25	87.50
<input type="checkbox"/> INPF 20021-7201	TYPES OF PIPING	0.42	10	17.00	108.36	125.36
<input type="checkbox"/> INPF 20031-7201	SPECIALTY PIPING	0.33	8	6.00	85.14	91.14
<input type="checkbox"/> INPF 20041-7201	PIPE FITTINGS & PRESSURE LOSS	0.25	6	19.00	64.50	83.50
<input type="checkbox"/> INPF 20051-7201	PIPING CONNECTIONS	0.33	8	21.00	85.14	106.14
<input type="checkbox"/> INPF 20061-7201	PIPE CUTTING AND THREADS	0.17	4	6.00	43.86	49.86
<input type="checkbox"/> INPF 20071-7201	PIPING FLANGES	0.42	10	21.00	108.36	129.36
<input type="checkbox"/> INPF 20081-7201	PIPING STAINLESS	0.33	8	36.00	85.14	121.14
UNIT TOTAL		2.50	60	149.00	645.00	794.00
UNIT 25 MATHEMATICS FOR PIPEFITTING						
<input type="checkbox"/> INPF 25012-7201	PIPEFITTING MATH 1	0.17	4	24.00	43.86	67.86
<input type="checkbox"/> INPF 25022-7201	PIPEFITTING MATH 2	0.25	6	24.00	64.50	88.50
<input type="checkbox"/> INPF 25032-7201	PIPEFITTING MATH 3	0.63	15	84.00	162.54	246.54
<input type="checkbox"/> INPF 25042-7201	PIPEFITTING MATH 4	0.25	6	24.00	64.50	88.50
<input type="checkbox"/> INPF 25052-7201	PIPEFITTING MATH 5	0.25	6	24.00	64.50	88.50
<input type="checkbox"/> INPF 25062-7201	PIPEFITTING MATH 6	0.83	20	84.00	214.14	298.14
<input type="checkbox"/> INPF 25072-7201	PIPEFITTING MATH 7	0.25	6	24.00	64.50	88.50
UNIT TOTAL		2.63	63	288.00	678.54	966.54
UNIT 30 PIPEFITTING						
<input type="checkbox"/> INPF 30011-7201	BASIC RATIO PIPE CAPACITIES	0.25	6	35.00	64.50	99.50
<input type="checkbox"/> INPF 30021-7201	VALVES MANUAL	0.42	10	32.00	108.36	140.36
<input type="checkbox"/> INPF 30031-7201	VALVES SELF CONTAINED	0.29	7	16.00	74.82	90.82
<input type="checkbox"/> INPF 30041-7201	PIPING SUPPORT	0.25	6	36.00	64.50	100.50
<input type="checkbox"/> INPF 30051-7201	PVC PIPING	0.29	7	24.00	74.82	98.82
<input type="checkbox"/> INPF 30061-7201	PIPING COMPRESSION	0.25	6	6.00	64.50	70.50
<input type="checkbox"/> INPF 30071-7201	SOLDERING AND BRAZING	0.63	15	21.00	162.54	183.54
<input type="checkbox"/> INPF 30081-7201	TUBE BENDING	0.29	7	34.00	74.82	108.82

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UNIT 30 PIPEFITTING (CONTINUED)						
<input type="checkbox"/> INPF 30091-7201	PRESSURE TAP & TRACING	0.42	10	41.00	108.36	149.36
<input type="checkbox"/> INPF 30101-7201	VICTAULIC	0.33	8	6.00	85.14	91.14
<input type="checkbox"/> INPF 30111-7201	FIBERGLASS REINFORCED PIPE	0.08	2	41.00	20.64	61.64
<input type="checkbox"/> INPF 30121-7201	GREENTHREAD	0.08	2	6.00	20.64	26.64
<input type="checkbox"/> INPF 30131-7201	CPVC PIPING	0.08	2	31.00	20.64	51.64
UNIT TOTAL		3.66	88	329.00	944.28	1273.28
UNIT 35 PLUMBING						
<input type="checkbox"/> INPF 35011-7201	PURPOSE OF THE PLUMBING CODE	0.17	4	12.00	43.86	55.86
<input type="checkbox"/> INPF 35021-7201	FIXTURES & APPLIANCES	0.17	4	12.00	43.86	55.86
<input type="checkbox"/> INPF 35031-7201	POTABLE WATER PROTECTION	0.42	10	42.00	108.36	150.36
<input type="checkbox"/> INPF 35041-7201	SEWAGE SYSTEMS	0.21	5	12.00	54.18	66.18
<input type="checkbox"/> INPF 35051-7201	DRAINS	0.21	5	12.00	54.18	66.18
<input type="checkbox"/> INPF 35061-7201	TRAPS INTERCEPTORS BACKWATER	0.42	10	12.00	108.36	120.36
<input type="checkbox"/> INPF 35071-7201	STACKS & ROUGH-IN SHEETS	0.17	4	12.00	43.86	55.86
<input type="checkbox"/> INPF 35081-7201	PURPOSE OF ASME CODE	0.08	2	6.00	20.64	26.64
<input type="checkbox"/> INPF 35091-7201	USING THE ASME CODE	0.17	4	6.00	43.86	49.86
<input type="checkbox"/> INPF 35101-7201	IMPORTANCE OF SAFETIES	0.08	2	53.00	20.64	73.64
<input type="checkbox"/> INPF 35111-7201	PRESSURE TEST AND LEAK TEST	0.29	7	6.00	74.82	80.82
<input type="checkbox"/> INPF 35121-7201	VENTING DRAINAGE SYSTEMS	0.21	5	6.00	54.18	60.18
<input type="checkbox"/> INPF 35122-7201	GAS SYSTEMS PIPING	0.13	3	6.00	33.54	39.54
<input type="checkbox"/> INPF 35131-7201	INSTALLING WATER HEATERS	0.17	4	6.00	43.86	49.86
UNIT TOTAL		2.90	69	203.00	748.20	951.20
UNIT 40 FIRE PROTECTION						
<input type="checkbox"/> INPF 40011-7201	NFPA 13 CODE BOOK	0.29	7	26.00	74.82	100.82
<input type="checkbox"/> INPF 40021-7201	SPRINKLER HEADS	0.21	5	6.00	54.18	60.18
<input type="checkbox"/> INPF 40031-7201	WET FIRE PROTECTION SYSTEM	0.21	5	11.00	54.18	65.18
<input type="checkbox"/> INPF 40041-7201	DRY FIRE PROTECTION SYSTEM	0.21	5	11.00	54.18	65.18
<input type="checkbox"/> INPF 40051-7201	DELUGE & FOAM FIRE PROTECTION	0.21	5	6.00	54.18	60.18
UNIT TOTAL		1.13	27	60.00	291.54	351.54
UNIT 45 THERMODYNAMICS OF HEAT						
<input type="checkbox"/> INPF 45011-7201	FORCE AND MOTION	0.08	2	8.00	20.64	28.64
<input type="checkbox"/> INPF 45021-7201	LAWS OF MOTION	0.08	2	8.00	20.64	28.64
<input type="checkbox"/> INPF 45031-7201	CONSERVATION OF MOMENTUM	0.08	2	8.00	20.64	28.64
<input type="checkbox"/> INPF 45041-7201	GRAVITY	0.08	2	8.00	20.64	28.64
<input type="checkbox"/> INPF 45051-7201	ATOMS AND MOLECULES	0.08	2	8.00	20.64	28.64
<input type="checkbox"/> INPF 45061-7201	SOLIDS	0.08	2	8.00	20.64	28.64
<input type="checkbox"/> INPF 45071-7201	LIQUIDS AND GASES	0.08	2	8.00	20.64	28.64
<input type="checkbox"/> INPF 45081-7201	TEMPERATURE AND HEAT	0.08	2	8.00	20.64	28.64
<input type="checkbox"/> INPF 45091-7201	CHANGE OF STATE	0.08	2	8.00	20.64	28.64
UNIT TOTAL		0.72	18	72.00	185.76	257.76
UNIT 50 EXPANSION						
<input type="checkbox"/> INPF 50011-7201	EXPANSION JOINTS	0.08	2	6.00	20.64	26.64
UNIT TOTAL		0.08	2	6.00	20.64	26.64

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UNIT 55 PUMPS						
<input type="checkbox"/> INPF 55011-7201	CENTRIFUGAL PUMPS	0.42	10	6.00	108.36	114.36
<input type="checkbox"/> INPF 55021-7201	POSITIVE DISPLACEMENT PUMPS	0.42	10	26.00	108.36	134.36
UNIT TOTAL		0.84	20	32.00	216.72	248.72
UNIT 60 FLOW CONTROL						
<input type="checkbox"/> INPF 60011-7201	CONTROL THEORY 1	0.33	8	17.00	85.14	102.14
<input type="checkbox"/> INPF 60021-7201	CONTROL THEORY 2	0.13	3	17.00	33.54	50.54
<input type="checkbox"/> INPF 60031-7201	CONTROL THEORY 3	0.33	8	17.00	85.14	102.14
<input type="checkbox"/> INPF 60041-7201	CONTROL VALVES	0.25	6	6.00	64.50	70.50
<input type="checkbox"/> INPF 60051-7201	REGULATORS	0.25	6	6.00	64.50	70.50
<input type="checkbox"/> INPF 60061-7201	PRESSURE REDUCING VALVES	0.67	16	6.00	172.86	178.86
<input type="checkbox"/> INPF 60071-7201	ELECTROMECHANICAL CONTROLS	0.25	6	6.00	64.50	70.50
<input type="checkbox"/> INPF 60081-7201	PNEUMATIC CONTROLS	0.67	16	6.00	172.86	178.86
<input type="checkbox"/> INPF 60091-7201	FLOW MEASUREMENT	0.29	7	6.00	74.82	80.82
UNIT TOTAL		3.17	76	87.00	817.86	904.86
UNIT 65 COMPRESSED AIR						
<input type="checkbox"/> INPF 65011-7201	TYPES OF AIR COMPRESSORS	0.13	3	21.00	33.54	54.54
<input type="checkbox"/> INPF 65021-7201	SUPPORTING COMPONENTS	0.25	6	21.00	64.50	85.50
UNIT TOTAL		0.38	9	42.00	98.04	140.04
UNIT 70 STEAM						
<input type="checkbox"/> INPF 70011-7201	STEAM SAFETY	0.13	3	6.00	33.54	39.54
<input type="checkbox"/> INPF 70021-7201	FUNDAMENTALS OF STEAM	0.25	6	6.00	64.50	70.50
<input type="checkbox"/> INPF 70031-7201	STEAM TRAPS	0.67	16	6.00	172.86	178.86
<input type="checkbox"/> INPF 70041-7201	WATER HAMMER	0.08	2	6.00	20.64	26.64
<input type="checkbox"/> INPF 70051-7201	STEAM COILS AND RADIATORS	0.33	8	6.00	85.14	91.14
<input type="checkbox"/> INPF 70061-7201	VACUUM BREAKERS	0.17	4	6.00	43.86	49.86
<input type="checkbox"/> INPF 70071-7201	STEAM HEAT EXCHANGERS	0.42	10	6.00	108.36	114.36
UNIT TOTAL		2.05	49	42.00	528.90	570.90
UNIT 75 BOILERS						
<input type="checkbox"/> INPF 75011-7201	FUNDAMENTALS OF BOILERS	0.17	4	21.00	43.86	64.86
<input type="checkbox"/> INPF 75021-7201	HOT WATER BOILERS	0.42	10	12.00	108.36	120.36
<input type="checkbox"/> INPF 75031-7201	AIR TRAPS	0.08	2	6.00	20.64	26.64
<input type="checkbox"/> INPF 75041-7201	LOW PRESSURE BOILERS	0.29	7	12.00	74.82	86.82
<input type="checkbox"/> INPF 75051-7201	HIGH PRESSURE BOILERS	0.54	13	15.00	139.32	154.32
<input type="checkbox"/> INPF 75061-7201	BOILER CONTROLS	0.25	6	85.00	64.50	149.50
<input type="checkbox"/> INPF 75071-7201	BOILER SAFETIES	0.08	2	6.00	20.64	26.64
<input type="checkbox"/> INPF 75081-7201	BOILER VALVES	0.17	4	12.00	43.86	55.86
<input type="checkbox"/> INPF 75091-7201	BOILER BLOWDOWN	0.08	2	15.00	20.64	35.64
<input type="checkbox"/> INPF 75101-7201	CONDENSATE RETURN	0.50	12	6.00	129.00	135.00
<input type="checkbox"/> INPF 75111-7201	BOILER FEED WATER	0.25	6	12.00	64.50	76.50
<input type="checkbox"/> INPF 75121-7201	TROUBLESHOOTING BOILERS	0.25	6	6.00	64.50	70.50
<input type="checkbox"/> INPF 75131-7201	BOILER PREVENTATIVE MAINT INS	0.25	6	6.00	64.50	70.50
UNIT TOTAL		3.33	80	214.00	859.14	1073.14

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UNIT 80 PIPING MAINTENANCE						
<input type="checkbox"/> INPF 80011-7201	PIPING MAINTENANCE	0.50	12	6.00	129.00	135.00
UNIT TOTAL		0.50	12	6.00	129.00	135.00
TOTAL		26.05	627	1,607.00	6,720.90	8,327.90

FOR OFFICE USE ONLY

Instructor Approval _____ Date _____

Total Credit _____ Total Contact _____ Total Cost _____