

MODULES OFFERED AT THE REGIONAL MANUFACTURING TECHNOLOGY CENTER

KELLOGG COMMUNITY COLLEGE

FALL 2021

INDUSTRIAL HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION

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

Please note: Some modules have online availability. Please ask for more information.

Module Subject Code and Number	Module Title	Credit	Contact Hours	Lab Fees	Tuition	Total Cost
<input type="checkbox"/> INHR C910-7201	HVAC-R 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		REFRIGERATION TOOLS/PLANT SAFETY				
<input type="checkbox"/> INHR 05011-7201	HVAC-R SAFETY	0.83	20	41.00	214.14	255.14
<input type="checkbox"/> INHR 05021-7201	HVAC-R TOOLS	0.08	2	31.00	20.64	51.64
UNIT TOTAL		0.91	22	72.00	234.78	306.78
UNIT 10		REFRIGERATION FUNDAMENTALS				
<input type="checkbox"/> INHR 10011-7201	INTRODUCTION TO HVAC-R	0.33	8	55.00	85.14	140.14
<input type="checkbox"/> INHR 10021-7201	TRADE MATHEMATICS	0.42	10	16.00	108.36	124.36
<input type="checkbox"/> INHR 10031-7201	COPPER PLASTIC PIPING PRACTICE	0.21	5	26.00	54.18	80.18
<input type="checkbox"/> INHR 10041-7201	SOLDERING AND BRAZING	0.33	8	44.00	85.14	129.14
<input type="checkbox"/> INHR 10051-7201	FERROUS METAL PIPING PRACTICES	0.63	15	31.00	162.54	193.54
UNIT TOTAL		1.92	46	172.00	495.36	667.36
UNIT 12		ELECTRICAL FUNDAMENTALS FOR HVAC/R				
<input type="checkbox"/> INHR 12011-7201	ELEC SAFETY & HAZARD AWARENES	0.33	8	41.00	85.14	126.14
<input type="checkbox"/> INHR 12021-7201	BASIC ELEC THEORY & TERMINOLGY	0.67	16	41.00	172.86	213.86
<input type="checkbox"/> INHR 12031-7201	BASIC ELECTRICAL CIRCUITS	0.50	12	46.00	129.00	175.00
<input type="checkbox"/> INHR 12041-7201	ELECTRICAL MEASUREMENT	0.50	12	46.00	129.00	175.00
<input type="checkbox"/> INHR 12051-7201	CIRCUIT ANALYSIS	1.00	24	46.00	258.00	304.00
<input type="checkbox"/> INHR 12061-7201	INDUCTANCE & CAPACITANCE	0.67	16	46.00	172.86	218.86
<input type="checkbox"/> INHR 12071-7201	COMBINATION CIRCUITS	0.50	12	11.00	129.00	140.00
<input type="checkbox"/> INHR 12081-7201	TRANSFORMERS	0.50	12	11.00	129.00	140.00
<input type="checkbox"/> INHR 12091-7201	FUSES & CIRCUIT BREAKERS	0.25	6	16.00	64.50	80.50
<input type="checkbox"/> INHR 12101-7201	RELAYS & CONTACTORS	0.25	6	16.00	64.50	80.50
<input type="checkbox"/> INHR 12111-7201	MAGNETISM AND AC FUNDAMENTALS	0.50	12	16.00	129.00	145.00
<input type="checkbox"/> INHR 12121-7201	ELECTRIC MOTORS & CONTROLS	0.50	12	16.00	129.00	145.00
<input type="checkbox"/> INHR 12131-7201	SYMBOLS AND WRITING DIAGRAMS	0.50	12	16.00	129.00	145.00
UNIT TOTAL		6.67	160	368.00	1720.86	2088.86
UNIT 15		REFRIGERATION SYSTEMS & COMPONENTS				
<input type="checkbox"/> INHR 15011-7201	INTRODUCTION TO COOLING	1.25	30	16.00	322.50	338.50
<input type="checkbox"/> INHR 15021-7201	COMPRESSORS	0.63	15	23.00	162.54	185.54
<input type="checkbox"/> INHR 15031-7201	REFRIGERANTS AND OILS	0.42	10	24.00	108.36	132.36
<input type="checkbox"/> INHR 15041-7201	METERING DEVICES	0.33	8	16.00	85.14	101.14
<input type="checkbox"/> INHR 15051-7201	LEAK EVAC RECOVERY CHARGING	0.83	20	71.00	214.14	285.14
<input type="checkbox"/> INHR 15061-7201	TROUBLESHOOTING COOLING	0.83	20	27.00	214.14	241.14
<input type="checkbox"/> INHR 15071-7201	RETAIL REFRIGERATION SYSTEMS	0.83	20	31.00	214.14	245.14
<input type="checkbox"/> INHR 15081-7201	COMMERCIAL INDUSTRIAL REFRIG	1.00	24	18.00	258.00	276.00
UNIT TOTAL		6.12	147	226.00	1578.96	1804.96

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<input type="checkbox"/> *INHR C410-7201	EPA CERTIFICATION		3	90.00	0.00	90.00
(STUDENT MUST ARRANGE DATE/TIME WITH INSTRUCTOR.)						
UNIT 20 HEATING SYSTEMS & TROUBLESHOOTING						
<input type="checkbox"/> INHR 20011-7201	INTRODUCTION TO HEATING	0.63	15	21.00	162.54	183.54
<input type="checkbox"/> INHR 20021-7201	TROUBLESHOOTING GAS HEATING	0.54	13	24.00	139.32	163.32
<input type="checkbox"/> INHR 20031-7201	TROUBLESHOOTING OIL HEAT SYS	0.42	10	21.00	108.36	129.36
<input type="checkbox"/> INHR 20041-7201	CHIMNEYS, VENTS AND FLUES	0.21	5	16.00	54.18	70.18
<input type="checkbox"/> INHR 20051-7201	TROUBLESHOOTING ACCESSORIES	0.42	10	21.00	108.36	129.36
UNIT TOTAL		2.22	53	103.00	572.76	675.76
UNIT 25 HYDRONIC SYSTEMS						
<input type="checkbox"/> INHR 25011-7201	INTRODUCTION HYDRONIC SYSTEMS	0.42	10	16.00	108.36	124.36
<input type="checkbox"/> INHR 25021-7201	COMMERCIAL HYDRONIC SYSTEMS	0.54	13	16.00	139.32	155.32
UNIT TOTAL		0.96	23	32.00	247.68	279.68
UNIT 30 STEAM SYSTEMS						
<input type="checkbox"/> INHR 30011-7201	STEAM SYSTEMS	0.63	15	24.00	162.54	186.54
UNIT TOTAL		0.63	15	24.00	162.54	186.54
UNIT 35 HEAT PUMPS & TROUBLESHOOTING						
<input type="checkbox"/> INHR 35011-7201	HEAT PUMPS	0.83	20	16.00	214.14	230.14
<input type="checkbox"/> INHR 35021-7201	TROUBLESHOOTING HEAT PUMPS	0.54	13	19.00	139.32	158.32
UNIT TOTAL		1.37	33	35.00	353.46	388.46
UNIT 40 AIR DISTRIBUTION & INDOOR AIR QUALITY						
<input type="checkbox"/> INHR 40011-7201	INDOOR AIR QUALITY	0.63	15	23.00	162.54	185.54
<input type="checkbox"/> INHR 40021-7201	AIR DISTRIBUTION SYSTEMS	0.63	15	19.00	162.54	181.54
<input type="checkbox"/> INHR 40031-7201	COMMERCIAL AIRSIDE SYSTEMS	0.54	13	23.00	139.32	162.32
<input type="checkbox"/> INHR 40041-7201	AIR QUALITY EQUIPMENT	0.33	8	16.00	85.14	101.14
<input type="checkbox"/> INHR 40051-7201	SYSTEM BALANCING	0.83	20	23.00	214.14	237.14
UNIT TOTAL		2.96	71	104.00	763.68	867.68
UNIT 45 HVAC-R AUTOMATION CONTROLS						
<input type="checkbox"/> INHR 45011-7201	DIGITAL CONTROLS HVAC TECHS	0.21	5	91.00	54.18	145.18
<input type="checkbox"/> INHR 45021-7201	BUILDING MANAGEMENT SYSTEMS	0.75	18	16.00	193.50	209.50
UNIT TOTAL		0.96	23	107.00	247.68	354.68
UNIT 50 HVAC-R DUCT SYSTEMS						
<input type="checkbox"/> INHR 50011-7201	SHEET METAL DUCT SYSTEMS	0.42	10	31.00	108.36	139.36
<input type="checkbox"/> INHR 50021-7201	FIBERGLASS FLEXIBLE DUCT SYS	0.21	5	16.00	54.18	70.18
UNIT TOTAL		0.63	15	47.00	162.54	209.54

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UNIT 55 HVAC-R PREVENTATIVE MAINTENANCE						
<input type="checkbox"/> INHR 55011-7201	INSTALLATION AND MAINTENANCE	0.92	22	16.00	237.36	253.36
<input type="checkbox"/> INHR 55021-7201	PLANNED MAINTENANCE	0.83	20	29.00	214.14	243.14
<input type="checkbox"/> INHR 55031-7201	CONSTRUCTION DRAWINGS SPECIFI	1.04	25	18.00	268.32	286.32
UNIT TOTAL		2.79	67	63.00	719.82	782.82
UNIT 60 HVAC-R COMMISSIONING & CONSERVATION						
<input type="checkbox"/> INHR 60011-7201	SYSTEM STARTUP AND SHUTDOWN	0.96	23	21.00	247.68	268.68
<input type="checkbox"/> INHR 60021-7201	HEATING COOLING SYSTEM DESIGN	1.04	25	24.00	268.32	292.32
<input type="checkbox"/> INHR 60031-7201	ENERGY CONSERVATION EQUIPMENT	0.42	10	21.00	108.36	129.36
<input type="checkbox"/> INHR 60041-7201	ALTERNATIVE HEAT COOL SYSTEMS	0.42	10	24.00	108.36	132.36
UNIT TOTAL		2.84	68	90.00	732.72	822.72
UNIT 65 WATER TREATMENT						
<input type="checkbox"/> INHR 65011-7201	WATER TREATMENT	0.42	10	48.00	108.36	156.36
UNIT TOTAL		0.42	10	48.00	108.36	156.36
UNIT 70 SUPERVISORY SKILLS						
<input type="checkbox"/> INHR 70011-7201	INTRO TO SUPERVISORY SKILLS	0.63	15	41.00	162.54	203.54
UNIT TOTAL		0.63	15	41.00	162.54	203.54
UNIT 75 WRITING FOR EMPLOYMENT						
<input type="checkbox"/> INHR 75011-7201	WRITING FOR EMPLOYMENT	0.50	12	6.00	129.00	135.00
UNIT TOTAL		0.50	12	6.00	129.00	135.00
PROGRAM TOTAL		32.53	785	1628.00	8392.74	10020.74

*Module 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 _____