

**KELLOGG COMMUNITY COLLEGE**

**SPRING 2019**

**INDUSTRIAL HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION**

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Module Subject Code and Number	Module Title	Credit	Contact Hours	Lab Fees	Tuition	Total Cost
<input type="checkbox"/> INHR C910	HVAC-R ORIENTATION		2	0.00	0.00	0.00
	The orientation must be completed at the RMTTC in Battle Creek prior to registration. Please call 269.965.4137 to verify available orientation times.					
<b>UNIT 05 REFRIGERATION TOOLS/PLANT SAFETY</b>						
<input type="checkbox"/> INHR 05011	HVAC-R SAFETY	0.83	20	41.00	178.45	219.45
<input type="checkbox"/> INHR 05021	HVAC-R TOOLS	0.08	2	31.00	17.20	48.20
<b>UNIT TOTAL</b>		<b>0.91</b>	<b>22</b>	<b>72.00</b>	<b>195.65</b>	<b>267.65</b>
<b>UNIT 10 REFRIGERATION FUNDAMENTALS</b>						
<input type="checkbox"/> INHR 10011	INTRODUCTION TO HVAC-R	0.33	8	25.00	70.95	95.95
<input type="checkbox"/> INHR 10021	TRADE MATHEMATICS	0.42	10	16.00	90.30	106.30
<input type="checkbox"/> INHR 10031	COPPER PLASTIC PIPING PRACTICE	0.21	5	26.00	45.15	71.15
<input type="checkbox"/> INHR 10041	SOLDERING AND BRAZING	0.33	8	44.00	70.95	114.95
<input type="checkbox"/> INHR 10051	FERROUS METAL PIPING PRACTICES	0.63	15	31.00	135.45	166.45
<b>UNIT TOTAL</b>		<b>1.92</b>	<b>46</b>	<b>142.00</b>	<b>412.80</b>	<b>554.80</b>
<b>UNIT 15 REFRIGERATION SYSTEMS &amp; COMPONENTS</b>						
<input type="checkbox"/> INHR 15011	INTRODUCTION TO COOLING	1.25	30	16.00	268.75	284.75
<input type="checkbox"/> INHR 15021	COMPRESSORS	0.63	15	23.00	135.45	158.45
<input type="checkbox"/> INHR 15031	REFRIGERANTS AND OILS	0.42	10	24.00	90.30	114.30
<input type="checkbox"/> INHR 15041	METERING DEVICES	0.33	8	16.00	70.95	86.95
<input type="checkbox"/> INHR 15051	LEAK EVAC RECOVERY CHARGING	0.83	20	71.00	178.45	249.45
<input type="checkbox"/> INHR 15061	TROUBLESHOOTING COOLING	0.83	20	27.00	178.45	205.45
<input type="checkbox"/> INHR 15071	RETAIL REFRIGERATION SYSTEMS	0.83	20	31.00	178.45	209.45
<input type="checkbox"/> INHR 15081	COMMERCIAL INDUSTRIAL REFRIG	1.00	24	18.00	215.00	233.00
<b>UNIT TOTAL</b>		<b>6.12</b>	<b>147</b>	<b>226.00</b>	<b>1315.80</b>	<b>1541.80</b>
<input type="checkbox"/> *INHR C410	EPA CERTIFICATION		3	90.00	0.00	90.00
	(STUDENT MUST ARRANGE DATE/TIME WITH INSTRUCTOR.)					
<b>UNIT 20 HEATING SYSTEMS &amp; TROUBLESHOOTING</b>						
<input type="checkbox"/> INHR 20011	INTRODUCTION TO HEATING	0.63	15	21.00	135.45	156.45
<input type="checkbox"/> INHR 20021	TROUBLESHOOTING GAS HEATING	0.54	13	24.00	116.10	140.10
<input type="checkbox"/> INHR 20031	TROUBLESHOOTING OIL HEAT SYS	0.42	10	21.00	90.30	111.30
<input type="checkbox"/> INHR 20041	CHIMNEYS, VENTS AND FLUES	0.21	5	16.00	45.15	61.15
<input type="checkbox"/> INHR 20051	TROUBLESHOOTING ACCESSORIES	0.42	10	21.00	90.30	111.30
<b>UNIT TOTAL</b>		<b>2.22</b>	<b>53</b>	<b>103.00</b>	<b>477.30</b>	<b>580.30</b>
<b>UNIT 25 HYDRONIC SYSTEMS</b>						
<input type="checkbox"/> INHR 25011	INTRODUCTION HYDRONIC SYSTEMS	0.42	10	16.00	90.30	106.30
<input type="checkbox"/> INHR 25021	COMMERCIAL HYDRONIC SYSTEMS	0.54	13	16.00	116.10	132.10
<b>UNIT TOTAL</b>		<b>0.96</b>	<b>23</b>	<b>32.00</b>	<b>206.40</b>	<b>238.40</b>

continued

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<b>UNIT 30 STEAM SYSTEMS</b>						
<input type="checkbox"/> INHR 30011	STEAM SYSTEMS	0.63	15	24.00	135.45	159.45
<b>UNIT TOTAL</b>		<b>0.63</b>	<b>15</b>	<b>24.00</b>	<b>135.45</b>	<b>159.45</b>
<b>UNIT 35 HEAT PUMPS &amp; TROUBLESHOOTING</b>						
<input type="checkbox"/> INHR 35011	HEAT PUMPS	0.83	20	16.00	178.45	194.45
<input type="checkbox"/> INHR 35021	TROUBLESHOOTING HEAT PUMPS	0.54	13	19.00	116.10	135.10
<b>UNIT TOTAL</b>		<b>1.37</b>	<b>33</b>	<b>35.00</b>	<b>294.55</b>	<b>329.55</b>
<b>UNIT 40 AIR DISTRIBUTION &amp; INDOOR AIR QUALITY</b>						
<input type="checkbox"/> INHR 40011	INDOOR AIR QUALITY	0.63	15	23.00	135.45	158.45
<input type="checkbox"/> INHR 40021	AIR DISTRIBUTION SYSTEMS	0.63	15	19.00	135.45	154.45
<input type="checkbox"/> INHR 40031	COMMERCIAL AIRSIDE SYSTEMS	0.54	13	23.00	116.10	139.10
<input type="checkbox"/> INHR 40041	AIR QUALITY EQUIPMENT	0.33	8	16.00	70.95	86.95
<input type="checkbox"/> INHR 40051	SYSTEM BALANCING	0.83	20	23.00	178.45	201.45
<b>UNIT TOTAL</b>		<b>2.96</b>	<b>71</b>	<b>104.00</b>	<b>636.40</b>	<b>740.40</b>
<b>UNIT 45 HVAC-R AUTOMATION CONTROLS</b>						
<input type="checkbox"/> INHR 45011	DIGITAL CONTROLS HVAC TECHS	0.21	5	91.00	45.15	136.15
<input type="checkbox"/> INHR 45021	BUILDING MANAGEMENT SYSTEMS	0.75	18	16.00	161.25	177.25
<b>UNIT TOTAL</b>		<b>0.96</b>	<b>23</b>	<b>107.00</b>	<b>206.40</b>	<b>313.40</b>
<b>UNIT 50 HVAC-R DUCT SYSTEMS</b>						
<input type="checkbox"/> INHR 50011	SHEET METAL DUCT SYSTEMS	0.42	10	31.00	90.30	121.30
<input type="checkbox"/> INHR 50021	FIBERGLASS FLEXIBLE DUCT SYS	0.21	5	16.00	45.15	61.15
<b>UNIT TOTAL</b>		<b>0.63</b>	<b>15</b>	<b>47.00</b>	<b>135.45</b>	<b>182.45</b>
<b>UNIT 55 HVAC-R PREVENTATIVE MAINTENANCE</b>						
<input type="checkbox"/> INHR 55011	INSTALLATION AND MAINTENANCE	0.92	22	16.00	197.80	213.80
<input type="checkbox"/> INHR 55021	PLANNED MAINTENANCE	0.83	20	29.00	178.45	207.45
<input type="checkbox"/> INHR 55031	CONSTRUCTION DRAWINGS SPECIFI	1.04	25	18.00	223.60	241.60
<b>UNIT TOTAL</b>		<b>2.79</b>	<b>67</b>	<b>63.00</b>	<b>599.85</b>	<b>662.85</b>
<b>UNIT 60 HVAC-R COMMISSIONING &amp; CONSERVATION</b>						
<input type="checkbox"/> INHR 60011	SYSTEM STARTUP AND SHUTDOWN	0.96	23	21.00	206.40	227.40
<input type="checkbox"/> INHR 60021	HEATING COOLING SYSTEM DESIGN	1.04	25	24.00	223.60	247.60
<input type="checkbox"/> INHR 60031	ENERGY CONSERVATION EQUIPMENT	0.42	10	21.00	90.30	111.30
<input type="checkbox"/> INHR 60041	ALTERNATIVE HEAT COOL SYSTEMS	0.42	10	24.00	90.30	114.30
<b>UNIT TOTAL</b>		<b>2.84</b>	<b>68</b>	<b>90.00</b>	<b>610.60</b>	<b>700.60</b>
<b>UNIT 65 WATER TREATMENT</b>						
<input type="checkbox"/> INHR 65011	WATER TREATMENT	0.42	10	48.00	90.30	138.30
<b>UNIT TOTAL</b>		<b>0.42</b>	<b>10</b>	<b>48.00</b>	<b>90.30</b>	<b>138.30</b>

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<b>UNIT 70 SUPERVISORY SKILLS</b>						
<input type="checkbox"/> INHR 70011	INTRO TO SUPERVISORY SKILLS	0.63	15	41.00	135.45	176.45
<b>UNIT TOTAL</b>		<b>0.63</b>	<b>15</b>	<b>41.00</b>	<b>135.45</b>	<b>176.45</b>
<b>UNIT 75 WRITING FOR EMPLOYMENT</b>						
<input type="checkbox"/> INHR 75011	WRITING FOR EMPLOYMENT	0.50	12	6.00	107.50	113.50
<b>UNIT TOTAL</b>		<b>0.50</b>	<b>12</b>	<b>6.00</b>	<b>107.50</b>	<b>113.50</b>
<b>PROGRAM TOTAL</b>		<b>25.86</b>	<b>625</b>	<b>1230.00</b>	<b>5559.90</b>	<b>6789.90</b>

\*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 \_\_\_\_\_