

Refrigeration and Air Conditioning Mechanic

2017 RSOS STRUCTURE		MOVED TO:	2024 RSOS STRUCTURE		MOVED FROM:
MWA A	PERFORMS COMMON OCCUPATIONAL SKILLS		MWA A	PERFORMS COMMON OCCUPATIONAL SKILLS	
Task 1	Performs safety-related functions	Task 1	Task 1	Maintains safe and healthy workplace	
1.01	Maintains safe work environment		1.01	Maintains safe work environment	
1.02	Performs lock-out, tag-out and isolation procedures		1.02	Performs lock-out, tag-out and isolation procedures	
1.03	Uses personal protective equipment (PPE) and safety equipment		1.03	Uses personal protective equipment (PPE) and safety equipment	
			1.04	Participates in healthy and respectful work environment	NEW
Task 2	Uses tools and equipment	Task 4	Task 2	Maintains continuous learning	NEW
2.01	Uses hand tools	4.01	2.01	Upskills in new trade practices and procedures	
2.02	Uses portable and stationary power tools	4.02	2.02	Upskills in emerging technologies	
2.03	Uses brazing and soldering equipment	4.03			
2.04	Uses recovery and recycling equipment	4.04	Task 3	Uses communication and mentoring techniques	Task 4
2.05	Uses evacuation tools and equipment	4.05	3.01	Uses communication techniques	
2.06	Uses charging tools and equipment	4.04	3.02	Uses mentoring techniques	
2.07	Uses diagnostic and measuring tools and equipment	4.06			
2.08	Uses access equipment	4.08	MWA B PERFORMS ROUTINE TRADE ACTIVITIES		
2.09	Uses rigging, hoisting and lifting equipment	4.09	Task 4	Uses tools and equipment	Task 2
2.10	Uses digital technology	4.10	4.01	Uses hand tools	
Task 3	Organizes work	Task 5	4.02	Uses portable and stationary power tools	
3.01	Interprets drawings and specifications		4.03	Uses piping and tubing connecting tools and equipment	
3.02	Uses documentation and reference material		4.04	Uses recovery, recycling and charging tools and equipment	
3.03	Plans job tasks and procedures		4.05	Uses evacuation tools and equipment	
			4.06	Uses diagnostic and measuring tools and equipment	
			4.07	Uses electrical tools and equipment	NEW
			4.08	Uses access equipment	
Task 4	Uses communication and mentoring techniques	Task 3	4.09	Uses rigging, hoisting and lifting equipment	
4.01	Uses communication techniques		4.10	Uses digital technology	
4.02	Uses mentoring techniques				
			Task 5	Organizes work	Task 3

MWA B	PERFORMS ROUTINE TRADE ACTIVITIES		5.01	Interprets drawings and specifications	
Task 5	Performs work site preparation	Task 6	5.02	Uses reference material and documentation	
5.01	Prepares work site		5.03	Plans job tasks and procedures	
5.02	Handles materials and supplies				
			Task 6	Performs work site preparation	Task 5
Task 6	Performs trade activities		6.01	Prepares work site	
6.01	Performs brazing and soldering	7.01	6.02	Handles materials and supplies	
6.02	Performs leak and pressure tests on system	7.02			
6.03	Evacuates systems	7.03			
6.04	Uses refrigerants, gases and oils	7.04	Task 7	Performs trade-specific activities	
6.05	Performs field wiring of systems	7.05	7.01	Connects piping and tubing	6.01
6.06	Applies sealants and adhesives	7.06	7.02	Performs leak and pressure tests on systems	6.02
			7.03	Evacuates systems	6.03
			7.04	Uses refrigerants, gases and oils	6.04
			7.05	Performs field wiring of systems	6.05
			7.06	Applies sealants, adhesives and insulation	6.06
MWA C	PLANS INSTALLATION		MWA C	PLANS INSTALLATION	
Task 7	Plans installation of HVAC/R systems		Task 8	Plans installation of standard and high efficiency HVAC/R systems	
7.01	Verifies HVAC/R system parameters and requirements	8.01	8.01	Performs HVAC/R system design	7.01
7.02	Selects HVAC/R equipment, components and accessories	8.02	8.02	Selects HVAC/R equipment, components and accessories	7.02
7.03	Determines placement of HVAC/R equipment, components and accessories	8.03	8.03	Determines placement of HVAC/R equipment, components and accessories	7.03
7.04	Performs HVAC/R material take-off	8.04	8.04	Performs HVAC/R material take-off	7.04
Task 8	Plans installation of control systems		Task 9	Plans installation of control systems	
8.01	Verifies control system parameters and requirements	9.01	9.01	Performs control system design	8.01
8.02	Selects control system components and accessories	9.02	9.02	Selects control system components and accessories	8.02
8.03	Determines placement of control system components and accessories	9.03	9.03	Determines placement of control system components and accessories	8.03
8.04	Performs control system material take-off	9.04	9.04	Performs control system material take-off	8.04
			Task 10	Plans retrofits	NEW
			10.01	Analyzes energy efficiency of current system	

			10.02	Determines requirements for retrofits	
			10.03	Analyzes distribution requirements for retrofits	
			10.04	Performs design and sizing of retrofit equipment and components	
			10.05	Plans retrofit of control systems	
MWA D	PERFORMS INSTALLATION		MWA D	PERFORMS INSTALLATION	
Task 9	Installs HVAC/R systems		Task 11	Installs HVAC/R systems	
9.01	Confirms system layout	11.01	11.01	Confirms system layout	9.01
9.02	Assembles HVAC/R equipment, components and accessories	11.02	11.02	Assembles HVAC/R equipment, components and accessories	9.02
9.03	Places HVAC/R equipment, components and accessories	11.03	11.03	Places HVAC/R equipment, components and accessories	9.03
9.04	Installs fasteners, brackets and hangers	11.06	11.04	Retrofits HVAC/R equipment refrigerants and refrigerant oils	NEW
9.05	Installs HVAC/R piping and tubing	11.07	11.05	Retrofits HVAC/R equipment, components and accessories	NEW
9.06	Applies HVAC/R holding charge	11.08	11.06	Installs fasteners, brackets and hangers	9.04
			11.07	Installs HVAC/R piping and tubing	9.05
			11.08	Applies HVAC/R holding charge	9.06
Task 10	Installs control systems	Task 12	Task 12	Installs control systems	
10.01	Places control system components		12.01	Places control system components	10.01
10.02	Connects control systems		12.02	Connects control systems	10.02
			12.03	Retrofits control systems	NEW
MWA E	PERFORMS COMMISSIONING		MWA E	PERFORMS COMMISSIONING	
Task 11	Commissions HVAC/R systems		Task 13	Commissions new and retrofitted HVAC/R and control system components	
11.01	Performs pre-start-up checks for HVAC/R systems	13.01	13.01	Performs pre-start-up checks for HVAC/R systems	11.01
11.02	Performs start-up of HVAC/R systems	13.02	13.02	Performs start-up of HVAC/R systems	11.02
11.03	Completes HVAC/R system charge	13.04	13.03	Performs start-up checks for control systems	12.01
11.04	Sets up primary and secondary HVAC/R system components	13.05	13.04	Completes HVAC/R system charge	11.03
			13.05	Sets up primary and secondary HVAC/R system components	11.04
Task 12	Commissions control systems				

12.01	Performs start-up checks for control systems	13.03	Task 14	Verifies system performance	NEW
12.02	Verifies/sets operating parameters	14.01	14.01	Verifies/sets operating parameters	12.02
			14.02	Verifies system integration	NEW
			14.03	Performs system optimization	NEW
			14.04	Completes commissioning documentation	NEW
MWA F	PERFORMS MAINTENANCE AND SERVICE		MWA F	PERFORMS MAINTENANCE AND SERVICE	
Task 13	Maintains HVAC/R systems		Task 15	Maintains HVAC/R systems	
13.01	Inspects HVAC/R systems	15.01	15.01	Inspects HVAC/R systems	13.01
13.02	Performs predictive and scheduled maintenance on HVAC/R systems	15.02	15.02	Performs predictive and scheduled maintenance on HVAC/R systems	13.02
13.03	Tests HVAC/R system components and accessories	15.03	15.03	Tests HVAC/R system components and accessories	13.03
			15.04	Optimizes integrated system performance	NEW
Task 14	Services HVAC/R systems		Task 16	Services HVAC/R systems	
14.01	Troubleshoots HVAC/R systems	16.01	16.01	Troubleshoots HVAC/R systems	14.01
14.02	Repairs HVAC/R systems	16.02	16.02	Repairs HVAC/R systems	14.02
Task 15	Maintains and services control systems		Task 17	Maintains and services control systems	
15.01	Performs maintenance and inspection on control systems	17.01	17.01	Performs maintenance and inspection on control systems	15.01
15.02	Troubleshoots control systems	17.02	17.02	Troubleshoots control systems	15.02
15.03	Calibrates operating and safety controls	17.03	17.03	Calibrates operating and safety controls	15.03
15.04	Repairs control systems	17.04	17.04	Repairs control systems	15.04