HVAC Mechanic - Career	Ladder	Revised 8/23/2022	
	HVAC Mechanic I	HVAC Mechanic II	HVAC Mechanic III
Grade:	21	23	25
	Entry/apprentice level work servicing and repairing heating and ventilation systems, air- conditioning systems, boilers and associated equipment.	Journey level work installing, servicing and repairing heating and ventilation systems, air- conditioning systems, boilers and associated equipment.	Master level work installing, servicing and repairing heating and ventilation systems, air- conditioning systems, boilers and associated equipment.
Education (Minimum)		H.S. diploma or GED	H.S. diploma or GED
Yrs. of Experience (Minimum)	1 year experience in heating, cooling and ventilation systems.	5 years experience in heating, cooling and ventilation systems.	7 years experience in heating, cooling and ventilation systems.
Certifications (Required)	 EPA Section 608 Universal (preferred) 	 Maryland HVAC journeyman license EPA Section 608 Universal 	 Maryland HVAC master license EPA Section 608 Universal
Training (Required)	HVAC	HVAC	HVAC
	ventilation systems. Basic knowledge of operations and maintenance of buildings and building systems including electrical, plumbing and energy systems. Fundamental knowledge of methods, procedures, techniques and tools of the HVAC trade. Basic knowledge of building and fire codes, occupational hazards and safety precautions of the trade.	electrical, plumbing and energy systems. Working knowledge of electrical and mechanical components and functions of HVAC systems and/or boilers. Comprehensive knowledge of methods, procedures, techniques and tools of the HVAC trade. Working knowledge of building and fire codes, occupational hazards and safety precautions of the trade.	electrical and mechanical components and functions of HVAC systems and/or boilers. Advanced knowledge of methods, procedures, techniques and tools of the HVAC trade. Advanced knowledge of building and fire codes, occupational hazards and safety precautions of the trade.
	develop knowledge, skills and abilities of the trade.	 Perform skilled HVAC work including installation, operation, modification, maintenance, troubleshooting, repair and retrofitting. Provide guidance and training to apprentice level HVAC Mechanics. 	 Perform highly skilled HVAC work including installation, operation, modification, maintenance, troubleshooting, repair, retrofitting and programming building automation systems and HVAC controls. Provide guidance and training to apprentice and journey level HVAC Mechanics. Recognized as a subject matter expert.
Level of Autonomy	Under direction of a licensed HVAC journeyman	Under moderate supervision	Under general supervision

	HVAC Mechanic I	HVAC Mechanic II	HVAC Mechanic III
Grade		23	25
Core Functions	 Perform general HVAC maintenance related tasks. Assist journey level mechanics in installation and repair of commercial mechanical air-conditioning, heating and ventilating equipment and control systems. Diagnose and troubleshoot air distribution, air balancing, stratification, building insulation and vapor deficiencies. Repair or replace failed sensors, transmitters and transducers for control systems. Repair, retrofit or install new direct digital control systems' hardware and adjust boilers, chillers, air handling units, motor controls, refrigerant systems operating parameters from their own interface panels or the building automation systems. Install, maintain and retrofit new electromechanical relay logic control circuits, pneumatic logic controls, damper or valve actuators and/or variable frequency drivers. Maintain records of work performed, parts and materials used, and equipment operation logs including equipment failures and repairs. 	 Perform HVAC maintenance related tasks. Maintain, install and repair commercial heating and air-conditioning systems, controls and related subsystems and components. Diagnose and troubleshoot air distribution, air balancing, stratification, building insulation and vapor deficiencies. Repair or replace failed sensors, transmitters and transducers for control systems. Repair, retrofit or install new direct digital control systems' hardware; make adjustments to peripheral systems. Install, maintain and retrofit new electromechanical relay logic control circuits, pneumatic logic controls, damper or valve actuators and/or variable frequency drivers. Perform program maintenance work and routine checkups including backups and database server maintenance. Monitor and inspect construction projects and contract work. Maintain records of work performed, parts and materials used, and equipment operation logs including equipment failures and repairs. May guide HVAC apprentices. 	 Perform HVAC maintenance related tasks. Maintain, install and repair commercial heating and air-conditioning systems, controls and related subsystems and components. Diagnose and troubleshoot air distribution, air balancing, stratification, building insulation and vapor deficiencies. Repair or replace failed sensors, transmitters and transducers for control systems. Repair, retrofit or install new direct digital contro systems' hardware and software; make adjustments to peripheral systems. Install, maintain and retrofit new electromechanical relay logic control circuits, pneumatic logic controls, damper or valve actuators and/or variable frequency drivers.

	HVAC Mechanic I	HVAC Mechanic II	HVAC Mechanic III
Grade	e: 21	23	25
Core Skills	 Customer service orientation 	 Customer service orientation 	 Customer service orientation
	Proactive	Proactive	Proactive
	Time management	Time management	 Time management
	 Ability to proficiently and safely use tools, 	 Ability to proficiently and safely use tools, 	 Ability to proficiently and safely use tools,
	equipment and materials of the trade.	equipment and materials of the trade.	equipment and materials of the trade.
	 Ability to read and interpret blueprints, control 	 Ability to read and interpret blueprints, control 	Ability to read and interpret blueprints, control
	diagrams, HVAC equipment and electrical	diagrams, HVAC equipment and electrical	diagrams, HVAC equipment and electrical
	schematic control wiring diagrams.	schematic control wiring diagrams.	schematic control wiring diagrams.
	 Ability to understand material and supply 	 Ability to understand material and supply 	 Ability to understand material and supply
	requirements.	requirements.	requirements.
	 Ability to read, understand and follow written, 	 Ability to read, understand and follow written, 	• Ability to read, understand and follow written,
	verbal and visual instructions.	verbal and visual instructions.	verbal and visual instructions.
	 Verbal and written communication 	 Verbal and written communication 	 Verbal and written communication
	Basic computer skills including Microsoft office	Basic computer skills including Microsoft office	Basic computer skills including Microsoft office
	suite software.	suite software.	suite software.
		 Ability to instruct and train lower level 	 Ability to instruct and train lower level
		employees.	employees.
Core Competencies	Service excellence	Service excellence	Service excellence
(Proposed)	Dependability	Dependability	 Dependability
	 Accuracy and thoroughness 	 Accuracy and thoroughness 	 Accuracy and thoroughness
	Accountability	 Accountability 	Accountability
	Critical thinking	 Critical thinking 	 Critical thinking
	Problem solving	 Problem solving 	 Problem solving
	Adaptable	Adaptable	Adaptable
	Communicate effectively	 Communicate effectively 	 Communicate effectively
	Integrity	Integrity	Integrity
	Strive to learn	Strive to learn	Strive to learn
		Mentoring	Mentoring
		Guidance	Guidance

This document is not intended to provide a complete list of duties and responsibilities nor does it replace the Job Class Specification or Position Description.

Movement through a career path is also based on position availability, funding and business need.