WAGE GRADE CAREER PATH

WG 5823	AUTOMOTIVE MECHANIC

This occupation covers nonsupervisory jobs involved in the maintenance, repair, and overhaul of combustion-powered automotive vehicles, over-the-road trucks, and comparable vehicles, such as passenger cars, pickup trucks, buses, semitrailer truck tractors, warehouse tractors, farm tractors, forklifts, motorcycles, light combat vehicles such as jeeps and trucks, and other vehicles with similar characteristics, including their gasoline and diesel engines and other mechanical, hydraulic, electrical, and electronically controlled systems.

WG08 **Trade/Less than Journeyman**

	1	Continue required on-the-job and formal classroom training required in Civilian Training Plan
	2	Complete task qualifications for current position
	3	Complete task certifications for current position
	4	Master common to complex work tasks. Grade 08 automotive workers have a knowledge of various techniques for removing, replacing, cleaning, and installing a variety of parts, components, and accessories such as filters, radiators, engine thermostats, wheel cylinders, universal joints, wheel bearings, springs, shock absorbers, mufflers, components of heating and air conditioning systems, brake components, catalytic converters, clutch assemblies, carburetors, and suspension components such as lower control arms, struts, constant velocity joints (CV Joints), and stabilizer arms. They have the ability to determine when parts should be cleaned and reinstalled or replaced with standard parts; possess a basic understanding of electricity and hydraulics; and have the skills needed to make adjustments and settings, such as performing engine tune-ups, setting engine timing according to specifications, and adjusting brakes and power steering mechanisms. They have a basic understanding of on-board computer diagnostic systems and other test equipment, and the ability to test automotive computer control systems and emission systems. They are skilled in using basic tools common to the occupation (e.g., wrenches, sockets, ratchets, impact wrenches, torque wrenches, pliers, brake tools, and screwdrivers); in operating equipment common to the trade (e.g., front-end alignment and wheel balancing equipment, turning and grinding equipment for servicing brake drums and discs or rotor assemblies, and drilling and pressure bleeding devices); and in operating a small variety of test equipment (e.g., engine analyzers, capacity testers to determine if batteries are discharging or need replacement, hand-held computer diagnostic equipment, circuit testers, micrometers and dial indicators, tachometers, dwell meters, and battery hydrometers). They have a basic understanding of the makeup and operation of the various individual systems and their interrelationships to analyze test results in order to locate improperly functioning parts for repair or replacement. They possess the ability to read and interpret parts manuals and manufacturers' repair manuals.
	5	Provide production support services
	6	Maintain successful to above average performance ratings

WG10 **Journeyman**

	1	Continue required on-the-job and formal classroom training required in Civilian Training Plan
	2	Complete task qualifications for current position
	3	Complete task certifications for current position
	4	Master common to complex work tasks. Grade 10 automotive workers have a thorough knowledge of the makeup, operation, and installation of complex major systems and assemblies to troubleshoot and repair a variety of systems or to rebuild one or more systems such as the following: gasoline and diesel engines; automatic and manual transmissions and gear reduction systems; transaxles; drive line and rear axle assemblies including electrical, air, vacuum, or mechanically controlled differentials; electrical and electronic systems and accessories (e.g., conventional and transistorized ignition systems, charging and starting systems, and wiring and lighting systems); carbureted and electronic fuel injection systems; exhaust and emission control systems (e.g., continuous flow air injector or fuel vapor control); conventional and power steering mechanisms and hydraulic power-assist systems; and other systems of similar complexity. They are knowledgeable in the repair of hydraulic lifting, loading, turning, and positioning systems including their mechanical, hydraulic, electrical and electronic controls automotive worker, (e.g., hydraulic lift gates and electric wenches). They are able to troubleshoot and replace standard electronic components of systems, such as computer circuit boards and sensing and controlling units in engines, printed circuits in instrument and indicator panels, diodes in alternator regulators, armatures and control module transistors in electronic ignition systems, and sensors and relay units in emission control systems and use this knowledge to test and troubleshoot components and systems to locate equipment defects. They possess the ability to determine how far major components should be torn down, what parts and mechanisms can be reworked and refitted or should be replaced with new parts, and the type and extent of adjustment and alignment required. They must have the ability to interpret and apply manufacturers' repair manuals and technical specifications, schematics and engineering drawings, diagnostic codes, computer printouts, and safety manuals. They are skilled in the use of hand and power tools common to the occupation (e.g., wrenches, screwdrivers, insulated pliers, electric drills, pneumatic wrenches, and soldering irons) and a wide variety of specialized tools and test equipment (e.g., bench lathes, grinding and seating equipment, clutch pilot and gear puller tools; precision measuring tools such as dial gauges, micrometers, dial indicators, and calipers; vacuum gauges, tachometers, compression testers, capacity testers, coil testers, and pressure bleeding devices). They are able to operate electronic test equipment such as computerized engine analyzers and scanners, exhaust analyzers, dynamometers, and oscilloscopes.
	5	Provide production support services
	6	Maintain successful to above average performance ratings

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OPM Classification Standards