

## **MECHANIC**

### **DEFINITION**

Under general supervision, performs skilled inspection, diagnosis, repair, and maintenance of a variety of large and small vehicles and equipment, including electric, gasoline, diesel, and other powered equipment, emergency generators and assists in maintaining the fuel dispensing system.

### **SUPERVISION RECEIVED AND EXERCISED**

Receives general supervision from the assigned managerial personnel and technical and functional supervisor from the Lead Mechanic.

### **CLASS CHARACTERISTICS**

This is a journey-level mechanic position that performs the full range of duties required to ensure that College vehicles, including maintenance, farm, and grounds equipment are maintained in a safe and effective working condition and provide the highest level of safety for staff use. Responsibilities include performing a wide variety of tasks in the inspection, maintenance, and repair of vehicles and equipment in a timely manner. Positions at this level receive only occasional instruction or assistance as new or unusual situations arise and are fully aware of the operating procedures and policies of the work unit. This class is distinguished from Lead Mechanic in that the Lead Mechanic position is responsible for the technical and functional supervision of assigned maintenance staff and is capable of performing the most complex duties assigned to the function.

### **EXAMPLES OF ESSENTIAL FUNCTIONS (Illustrative Only)**

1. Performs skilled mechanical work in the inspection, safety checks, diagnosis, repair, and maintenance of a variety of large and small vehicles and maintenance, farm, and all light- and heavy-grounds and sports field equipment, including electric, battery-powered, hybrid, solar-powered, gasoline, and diesel-powered equipment.
2. Evaluates maintenance, servicing, and repair needs; reads and interprets schematics and diagrams; inspects and diagnoses mechanical malfunctions; maintains routine records of work performed.
3. Completes safety inspections on College-owned vehicles and other equipment prior to their release to the end user.
4. Changes oil, transmission, brake, and other fluids according to prescribed procedures; follows laws, rules, and regulations regarding the disposal of hazardous waste.
5. Assists in maintaining and performing minor repairs on the fuel dispensing/management system.
6. Overhauls, repairs, tunes, and adjusts automatic and standard transmissions, engines drive shafts, differentials, universal joints, gears, valves, transfer cases, and rear ends.
7. Diagnoses, repairs, and rebuilds engine electrical and ignition systems, such as distributors, coils, alternators, starters, and related systems.
8. Adjusts and replaces brakes; maintains, rebuilds, and replaces air and hydraulic brake system components; changes and balances tires.

9. Makes basic repairs of motors, engines, transmissions, differentials, chassis parts, electrical, fuel, ignition, cooling, steering, and hydraulic and air systems, including proper testing and adjustments.
10. Performs minor auto body and glass repairs, welding, and fabrication on various types of machinery and equipment.
11. Operates a variety of specialized electronic diagnostic equipment and machinery, including a computer.
12. Performs preventive maintenance work on vehicles, including inspections, lubrication, and oil changes.
13. Utilizes fleet maintenance and work order system(s) to maintain records, and repair vehicles and maintain records of maintenance and repair work performed.
14. Performs repair work on other College equipment and systems as necessary; accurately estimate time, materials, and supplies necessary to complete repairs.
15. Observes safe work methods and makes appropriate use of related safety equipment as required.
16. Operates a variety of hand and power tools and equipment related to work assignment as instructed.
17. Maintains work areas in a clean and orderly condition, including securing equipment at the close of the workday.
18. Assists Lead Mechanic with maintaining inventory to ensure most common items are in stock.
19. Operates equipment to test functionality of mechanical components as necessary.
20. Supports and complies with federal and state laws, Board Policies, and Administrative Procedures.
21. Provides quality customer service when interacting with the public, vendors, students, and College staff, including individuals from minoritized groups.
22. Participates on committees, task forces, and special assignments, including, but not limited to Screening and Selection Committees and mandated trainings, as required. Prepares and delivers oral presentations related to assigned areas if needed.
23. Works directly with people from various ages, disabilities, socio-economic levels and ethnic groups.
24. Maintains regular attendance.
25. Performs other related duties as assigned.

## **QUALIFICATIONS**

### **Knowledge of:**

1. Techniques, methods, materials, tools, and equipment used in the overhaul, servicing, and preventive maintenance of vehicles and maintenance, farm, and grounds equipment.
2. Operation, theory, and principles of electric, gasoline, and diesel engines.
3. Methods, equipment, tools, and materials used in the repair and maintenance of vehicles and equipment.
4. Diagnostic procedures for vehicles and equipment.
5. Technical aspects of analog and digital electronic equipment installed in vehicles.

6. Operation, maintenance, and calibration of a wide variety of equipment, hand, shop, and power tools used in the work.
7. Automotive and equipment servicing and preventive maintenance practices.
8. Basic troubleshooting and repair principles and practices.
9. Federal, state, and local laws, regulatory codes, ordinances, and procedures relevant to the scope of work assigned to mechanic positions.
10. Safe work methods and safety practices pertaining to the work.
11. Operating and safety rules, precautions, and principles of driving and operating electric and gas-powered equipment and transportation vehicles.
12. Safe work practices, including safe driving rules and practices.
13. Standard office practices and procedures, including the use of standard office equipment, basic record-keeping, and arithmetic.
14. Techniques for providing a high level of customer service by effectively interacting with the public, vendors, students, and College staff, including individuals of various ages, disabilities, socio-economic levels and ethnic groups.

**Skills & Abilities to:**

1. Diagnose and repair a variety of mechanical and electrical problems of vehicles and equipment.
2. Read and comprehend schematics, fabricate special bodies, parts, and essentials as necessary.
3. Locate and diagnose problems using electronic and mechanical diagnostic equipment.
4. Read and interpret instruction manuals and diagrams.
5. Safely and effectively use and operate hand tools, mechanical equipment, power tools, and equipment required for the work.
6. Interpret, apply, explain, and ensure compliance with applicable federal, state, and local policies, procedures, laws, and regulations.
7. Maintain accurate logs, records, and basic written records of work performed.
8. Operate modern office equipment, including computer equipment and software programs.
9. Make accurate arithmetic calculations.
10. Safely operate and maintain a variety of assigned College equipment and vehicles.
11. Organize own work, set priorities, and meet critical time deadlines.
12. Communicate effectively through various methods.
13. Understand scope of authority in making independent decisions.
14. Learn and apply emerging technologies and, as necessary, to perform duties in an efficient, organized, and timely manner.
15. Review situations accurately and determine appropriate course of action using judgment according to established policies and procedures.
16. Establish, maintain, and foster positive and effective working relationships with those contacted in the course of work.

**Education and Experience:**

1. Equivalent to the completion of the twelfth (12<sup>th</sup>) grade; and

2. Two (2) full-time equivalent years of responsible experience independently performing routine repair of automobiles, trucks, or power-driven equipment.

**Desirable Qualifications:**

1. Possession of, or ability to obtain, an Environmental Protection Agency (EPA) Section 609 Technician Certification within probationary period.
2. Possession of valid Automotive Service Excellence (ASE) Certification(s) for autos.

**Licenses and Certifications:**

1. The incumbent is required to drive to a variety of locations. This will require the incumbent to possess and maintain a valid California driver's license and proof of automobile insurance and maintain insurability under the College's vehicle insurance policy.
2. Successful candidate(s) will be required to take and pass a physical exam.

**PHYSICAL DEMANDS**

Must possess mobility to work in a standard shop setting and use and operate a variety of tools, power tools, equipment, and machinery; to operate a motor vehicle and drive on surface streets; to identify mechanical issues, to identify and locate parts and repair tools/equipment, to inspect, analyze, and diagnose problems with automobiles, trucks, and a variety of gasoline and diesel-powered maintenance, farm, and grounds equipment; strength, stamina, and mobility to perform medium to heavy physical work; vision to read printed materials and a computer screen to read various dials, gauges, and identify color-coded cables and wires; and hearing and speech to communicate in person and over the telephone. The job involves fieldwork requiring frequent walking in operational areas to identify problems or hazards. Finger dexterity is needed to access, enter, and retrieve data using a computer keyboard or calculator and to operate above-mentioned tools and equipment. Positions in this classification bend, stoop, kneel, reach, and climb to perform work and inspect work sites. Incumbents must possess the ability to lift, carry, push, and pull materials and objects weighing up to 50 pounds and heavier weights with the use of proper equipment.

**ENVIRONMENTAL ELEMENTS**

Incumbents primarily work in the centralized maintenance shop and are exposed to loud noise levels, vibration, confining workspace, chemicals, dust, paint fumes, mechanical and/or electrical hazards, grease, oils, solvents, machinery with extremely hot surfaces and/or moving parts and objects or other vehicles. Incumbents may interact with staff when trying to diagnose and/or resolve an equipment related problem.