

Table 2: Facility & Mobile Equipment Maintenance Pathway

Occupation Title	Occupation Description	Occupation-Specific Knowledge & Skills	Education/ Training Requirements
First-Line Supervisor, Manager of Mechanics	Directly supervise and coordinate the activities and work assignments of diesel engine mechanics	<ul style="list-style-type: none"> • Knowledge of machine, tool, equipment, and vehicle maintenance • Knowledge of the practical application of engineering & design principles for the repair and maintenance of equipment • Knowledge of technical plans, blueprints, drawings, and models, and the design techniques involved in creating them • Knowledge of human resources practices, including recruitment, training, compensation & benefits, and personnel information systems • Knowledge of selecting training & education programs appropriate for mechanics and technicians • Knowledge of appropriate equipment and shop safety and security regulations <p>Key skills include motivation, delegating, strategic planning, problem solving, communication, time management, negotiation, and leadership</p>	Several years on-the-job training; vocational or technical school training; associates degree preferred
Diesel Engine Mechanics	Diagnose, repair, and maintain the diesel engines of the company fleet	<ul style="list-style-type: none"> • Knowledge of diesel engine operation • Knowledge of the practical application of engineering & design principles for the repair and maintenance of equipment • Knowledge of troubleshooting techniques to diagnose and repair diesel engines • Knowledge of equipment downtime consequences on corporate bottom-line • Knowledge of basic product procurement and inventory management procedures • Knowledge of appropriate equipment and shop safety and security regulations <p>Key skills include equipment maintenance and repair, problem solving, decision making, troubleshooting, time management, and communication</p>	Vocational or technical school training; on-the-job experience, often in an apprenticeship; some may require associate's degree

(Table 2, continued)

Occupation Title	Occupation Description	Occupation-Specific Knowledge & Skills	Education/ Training Requirements
Facility Maintenance Mechanic	Perform routine maintenance of facility, equipment, and grounds in order to keep an establishment in good repair	<ul style="list-style-type: none">• Knowledge of mechanical, electrical, structural, machine, tool, equipment, and grounds maintenance techniques• Knowledge of the practical application of engineering & design principles for the repair and maintenance of equipment• Knowledge of technical plans, blueprints, drawings, and models, and the design techniques involved in creating them• Knowledge of facility/building design, codes, and construction materials• Knowledge of appropriate equipment and shop safety and security regulations <p>Key skills include equipment maintenance and repair, troubleshooting, problem solving, decision making, communication, critical thinking, time management and coordination</p>	Vocational or technical school training; on-the-job experience, often in an apprenticeship; some may require associate's degree
Forklift/Mobile Equipment Mechanic	Diagnose, repair, and maintain the mechanical and mobile equipment of a facility (forklifts, conveyers, material handling equipment such as overhead cranes, and grounds equipment/ vehicles)	<ul style="list-style-type: none">• Knowledge of mechanical, electrical, hydraulic, and pneumatic equipment• Knowledge of the practical application of engineering & design principles for the repair and maintenance of equipment• Knowledge of troubleshooting techniques to diagnose and repair equipment, machines, and vehicles• Knowledge of equipment downtime consequences on corporate bottom-line• Knowledge of basic product procurement and inventory management procedures• Knowledge of appropriate equipment and shop safety and security regulations <p>Key skills include equipment maintenance and repair, troubleshooting, problem solving, decision making, time management, and communication</p>	Vocational or technical school training; on-the-job experience, often in an apprenticeship; some may require associate's degree