

Diesel Mechanics

2025-2026

Diesel Mechanics Learning Outcomes

Diagnostics

The learner will diagnose faults in diesel engines.

MEASURES	RESULTS	ACTIONS
Engines and Fuel Systems Direct - Exam (Course) <i>Diesel Engine II: DIES 2630</i> Target Students will score an average of 7 on the exam.	<i>No results have been added.</i>	<i>No actions have been added.</i>

Air Conditioning

The learner will be able to restore air conditioning systems to proper function.

MEASURES	RESULTS	ACTIONS
HVAC Systems Direct - Exam (Course) <i>HVAC Systems: DIES 1642</i> Target Students will score an average of 7 on the exam.	<i>No results have been added.</i>	<i>No actions have been added.</i>

Wiring

The learner will interpret wiring diagrams to locate faults.

MEASURES	RESULTS	ACTIONS
Electrical Systems Direct - Exam (Course) <i>Electronic Engines/Controls: DIES 2632</i> Target Students will score an average of 7 on the exam.	<i>No results have been added.</i>	<i>No actions have been added.</i>

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Powertrain Components

The learner will be able to evaluate wear in power train components.

MEASURES	RESULTS	ACTIONS
<p>Powertrains</p> <p>Direct - Exam (Course)</p> <p><i>Powertrains II: DIES 2640</i></p> <p>Target</p> <p>Students will score an average of 7 on the exam.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

Safety

The learner will demonstrate safe practices while performing work.

MEASURES	RESULTS	ACTIONS
<p>Industry Standard Safety Measures</p> <p>Direct - Exam (Course)</p> <p><i>Diesel Industry Fundamentals: DIES 1630</i></p> <p>Target</p> <p>Students will score an average of 7 on the exam.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

Heating Systems

The learner will be able to diagnose heating system malfunctions in diesel equipment.

MEASURES	RESULTS	ACTIONS
<p>HVAC Systems</p> <p>Direct - Exam (Course)</p> <p><i>HVAC Systems: DIES 1642</i></p> <p>Target</p> <p>Students will score an average of 7 on the exam.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

Hydraulics Performance

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The learner will demonstrate proficiency in inspecting hydraulic systems for performance issues.

MEASURES	RESULTS	ACTIONS
<p>Hydraulics</p> <p>Direct - Exam (Course)</p> <p><i>Advanced Hydraulics: DIES 2641</i></p> <p>Target</p> <p>Students will score an average of 7 on the exam.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

Brake Systems

The learner will be able to repair brake components using manufacturer specifications.

MEASURES	RESULTS	ACTIONS
<p>Brake Systems</p> <p>Direct - Exam (Course)</p> <p><i>Braking Systems: DIES 2633</i></p> <p>Target</p> <p>Students will score an average of 7 on the exam.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

Diesel Engines

The learner will demonstrate the ability to repair diesel engine components using proper tools.

MEASURES	RESULTS	ACTIONS
<p>Engines and Fuel Systems</p> <p>Direct - Exam (Course)</p> <p><i>Diesel Engine II: DIES 2630</i></p> <p>Target</p> <p>Students will score an average of 7 on the exam.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

Diesel Powertrains

The learner will be able to replace power train parts using manufacturer specifications.

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MEASURES	RESULTS	ACTIONS
<p>Powertrains</p> <p>Direct - Exam (Course)</p> <p><i>Powertrains II: DIES 2640</i></p> <p>Target</p> <p>Students will score an average of 7 on the exam.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

Electrical Systems

The learner will demonstrate the ability to test electrical systems using diagnostic equipment.

MEASURES	RESULTS	ACTIONS
<p>Electrical Systems</p> <p>Direct - Exam (Course)</p> <p><i>Electronic Engines/Controls: DIES 2632</i></p> <p>Target</p> <p>Students will score an average of 7 on the exam.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

Service Procedures

The learner will demonstrate proficiency with documenting service procedures using standard formats.

MEASURES	RESULTS	ACTIONS
<p>Engines and Fuel Systems</p> <p>Direct - Exam (Course)</p> <p><i>Diesel Engine II: DIES 2630</i></p> <p>Target</p> <p>Students will score an average of 7 on the exam.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

Workplace Readiness

The learner will demonstrate readiness for entry-level employment in a diesel service environment.

MEASURES	RESULTS	ACTIONS

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<p>Quantity of Work</p> <p>Rate the employee's output of satisfactory work.</p> <p>Indirect - Survey</p> <p><i>Internship: DIES 2704</i></p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Stability</p> <p>Evenness of temperament, reaction under stress or strain, ability to work under pressure, and response to unpleasant situations.</p> <p>Indirect - Survey</p> <p><i>Internship: DIES 2704</i></p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Cooperation</p> <p>Ability to work for and with others; accept discipline and conform to policies of management; willingness to help others.</p> <p>Indirect - Survey</p> <p><i>Internship: DIES 2704</i></p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Dependability</p> <p>The employee's sense of duty to the job and the department, general reliability, punctuality, and attendance.</p> <p>Indirect - Survey</p> <p><i>Internship: DIES 2704</i></p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Industry</p> <p>Consider the effort put forth during working hours; application to the job and steady and diligent attention to the task at hand.</p> <p>Indirect - Survey</p> <p><i>Internship: DIES 2704</i></p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

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<p>Judgement</p> <p>Ability to analyze problems, reach sound conclusions, use initiative and productive imagination.</p> <p>Indirect - Survey</p> <p>Internship: DIES 2704</p>	<p>No results have been added.</p>	<p>No actions have been added.</p>
<p>Responsibility</p> <p>Success in adapting new and better ideas, improving own methods, taking care of equipment and assuming tasks independently.</p> <p>Indirect - Survey</p> <p>Internship: DIES 2704</p>	<p>No results have been added.</p>	<p>No actions have been added.</p>
<p>Aptitude</p> <p>Consider how work measures up to job standards considering accuracy, thoroughness and neatness.</p> <p>Indirect - Survey</p> <p>Internship: DIES 2704</p>	<p>No results have been added.</p>	<p>No actions have been added.</p>

Hydraulic Systems

The learner will be able to restore hydraulic systems to operational condition.

MEASURES	RESULTS	ACTIONS
<p>Hydraulics</p> <p>Direct - Exam (Course)</p> <p>Advanced Hydraulics: DIES 2641</p> <p>Target</p> <p>Students will score an average of 7 on the exam.</p>	<p>No results have been added.</p>	<p>No actions have been added.</p>