



Effective 2015/2016

Career Cluster ►



Career Pathway ►

Facility & Mobile
Equipment Maintenance

DIESEL EQUIPMENT TECHNOLOGY

(10-412-1)

Associate of Applied Science Degree

Most Courses Offered at Horizon Center

^Δ Suggested Sequence	✓	Course Number	Course Title	Requisites	Credits	Hrs/Wk Lec - Lab
Semester 1		412-111	* Diesel Maintenance Fundamentals		2	1-2
		412-107	* Diesel Electricity 1	Prereq: 412-111	4	2-4
		412-114	* Diesel Heating, Cooling & Air Cond.	Prereq: 412-111; 107	3	2-2
		412-117	* Diesel Suspension & Steering Systems	Prereq: 412-111	3	1-4
		804-107	College Mathematics	Prereq: 834-109 (See Note 1)	3	3-0
		801-136	English Composition 1	Prereq: 831-103 (See Note 1)	3	3-0
Semester 2		412-106	* Diesel Brake Systems	Prereq: 412-111; 117	4	2-4
		412-112	* Diesel Drive Trains	Prereq: 412-111; 106	4	2-4
		412-116	* Diesel Preventative Maintenance	Prereq: 412-111; 106; 112	3	1-4
		801-196	Oral/Interpersonal Communication	Prereq: 838-105 (See Note 1)	3	3-0
		801-197	Technical Reporting	Prereq: 801-136	3	3-0
Semester 3		412-110	* Diesel Fuel Systems	Prereq: 412-111	3	2-2
		412-109	* Diesel Engine Service	Prereq: 412-111; 110	5	2-6
		412-108	* Diesel Electricity 2	Prereq: 412-111; 107	3	2-2
		809-196	Introduction to Sociology	Prereq: 838-105 (See Note 1 & 7)	3	3-0
Semester 4		412-115	* Diesel Hydraulic Systems	Prereq: 412-111	2	1-2
		412-113	* Diesel Fuel Systems - Advanced	Prereq: 412-111; 107; 110; 108	3	2-2
		412-105	* Diesel Control Systems - Advanced	Prereq: 412-111; 108; 109; 112; 113; 114	4	3-2
		809-198	Psychology, Intro to	Prereq: 838-105 (See Note 1 & 7)	3	3-0
		809-195	Economics	Prereq: 838-105 (See Note 1)	3	3-0
Electives		<i>Take 6 elective credits. Any associate degree level course may be taken as an elective.</i>			6	
		Suggested Electives: 412-122 Professional Practices (3 Cr) 412-123 Diesel Equipment Technology Internship (3 Cr) 443-101 Forklift Operation and Maintenance (1 Cr)				

Minimum Program Total Credits Required

70

^ΔCourses may be taken out of suggested sequence as long as requisites have been met.



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PROGRAM DESCRIPTION

Diesel Equipment Technology is a two-year repair and maintenance program designed to prepare an entry level diesel technician. Program instruction will include over the road, off road and stationary applications. Emphasis will be placed on operational fundamentals and repair of diesel engines, and diesel vehicle systems including brakes, heating, and cooling systems. Technical skills will be developed in diagnosing and repair of advanced engine and system controls.

PROGRAM LEARNING OUTCOMES

Graduates of the Diesel Equipment Technology Program should be able to:

1. Diagnose major systems in diesel and heavy equipment industry.
2. Repair major systems in diesel and heavy equipment industry.
3. Service major systems in diesel and heavy equipment industry.
4. Practice personal and professional work habits.
5. Document complaint, cause, and correction.

CORE ABILITIES

Gateway believes students need both technical knowledge and skills and core abilities in order to succeed in a career and in life. The following nine core abilities are the general attitudes and skills promoted and assessed by all Gateway programs. All Gateway graduates should be able to:

- | | |
|--|---------------------------------------|
| 1. Act responsibly | 6. Respect themselves and others as a |
| 2. Communicate clearly and effectively | member of a diverse community |
| 3. Demonstrate essential comp. skills | 7. Think critically and creatively |
| 4. Demonstrate essential math skills | 8. Work cooperatively |
| 5. Develop job seeking skills | 9. Value learning |

ADMISSION REQUIREMENTS

1. Students must submit an application & \$30 fee.
2. Students must complete reading, writing, math, and computer skills placement assessments.
3. Students must submit official high school, GED, or HSED transcript.

GRADUATION REQUIREMENTS

1. Minimum 70 credits with an average of 2.0 or above.
2. Average of 2.0 ("C") or above for all 412 major courses.

For a complete list of Graduation Requirements check the Student Handbook.

NOTES

1. A satisfactory placement test score (or successful remediation) is required prior to enrollment. See an advisor for details.
2. Tablet computer required for this program. See an advisor for a fact sheet describing minimum requirement.
3. Work uniforms are required. See an advisor for details.
4. Safety glasses are required in labs. If prescription safety glasses are required, allow a minimum of 90 days.
5. Any course may be taken prior to entry in the program, assuming prerequisites and/or co-requisite requirements have been satisfied (or waived with departmental approval).
6. A state issued Commercial Driver License (CDL) is not required for the program but highly recommended. Gateway Technical College does not offer CDL training.
7. Transfer credits in Social Science may substitute for this course. See an advisor for details.

OTHER INFORMATION

Gateway Technical College reserves the right to modify curriculum requirements for students who interrupt enrollment for a period of two years or take over seven years to complete. Tuition and material fees are determined by the board of the Wisconsin Technical College System. Consult Web Advisor for exact fee amounts. Occasionally, the District may offer a particular course out of published sequence. By doing so, the District does not obligate itself to offer succeeding courses out of published sequence.

**EQUAL OPPORTUNITY EMPLOYER AND EDUCATOR
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To schedule an appointment with an advisor, please call 1-800-247-7122.

For a complete list of course descriptions (and possible online courses) for this program, please consult our web page at www.gtc.edu.

My advisor is _____ My advisor's contact information is _____.