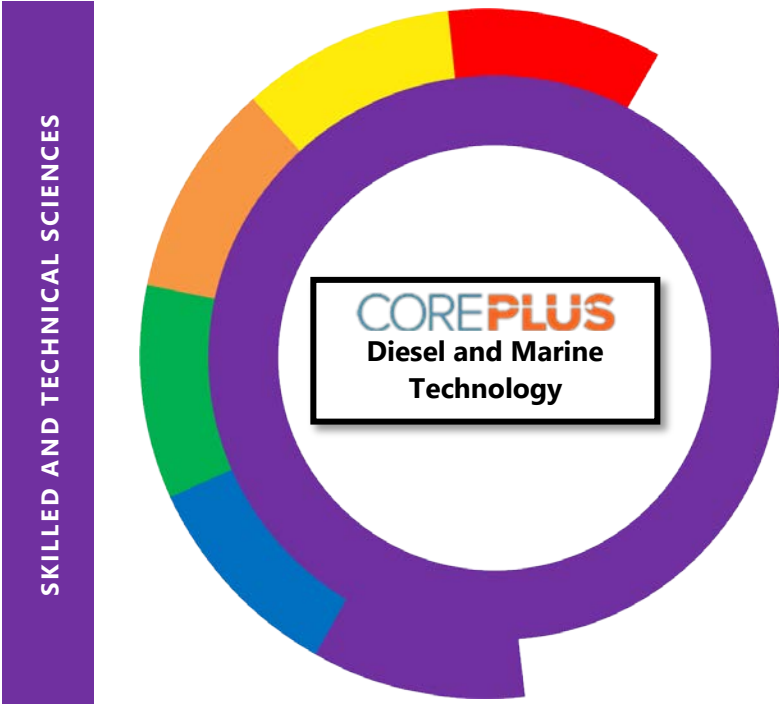




The **Transportation, Distribution, & Logistics Career Cluster** focuses on planning, management, and movement of people, materials, and products by road, air, rail and water. It also includes related professional and technical services such as infrastructure planning and management, logistics, and maintenance of equipment and facilities.



APPROVED PREPARATORY COURSE

Diesel and Marine Technology

OSPI OR DISTRICT APPROVED EQUIVALENCY CREDITS

Math	CTE
English	Elective
Lab Science	

INDUSTRY RECOGNIZED CREDENTIALS

- Core Plus Maritime Certificate
-
-

ALIGNED TO INDUSTRY

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH	JOB ZONE OR RANGE
Bus and Truck Mechanic	\$59,500	850	10%	2-3
Mobile Heavy Equipment Mechanic	\$64,760	620	4%	2-3
Water Transportation Worker	\$84,060	210	1%	3
Ship Engineer	\$87,560	150	3%	3
Marine Engineer	\$95,250	40	7%	4

WORK-BASED LEARNING AND EXTENDED LEARNING OPPORTUNITIES

Work Experience Opportunities
 CTE students in many cases can pursue what is called a “work-based learning” opportunity or an internship involving a job outside of school. “Work-based learning” experiences are always paid and students can earn high school credit. Internships are typically paid, but students do not earn academic credit. Individual schools and CTE teachers work with local employers to arrange these opportunities for their students, so your program instructor is the best source of information for what your own school offers.

Diesel and Marine Technology: Students will be provided with hands-on training in multiple areas of the diesel and marine technology field. This program will cover a wide variety of topics and will use diesel engines as a focal point. Technical units will include the science behind corrosion, propulsion, and buoyancy, along with basic skills for topics including precision measurement, shop safety, tool use, and rigging. Other units will focus on electrical systems, pneumatics, hydraulics, and even material science.

POST-SECONDARY PATHWAYS

DIRECT ENTRY TO WORKFORCE

Watercraft Service Attendant

Marine Diesel Engine Technician

Engine Assembler

COLLEGE CTE DUAL CREDITS ARE AVAILABLE FOR THIS COURSE. PLEASE CONTACT YOUR INSTRUCTOR FOR MORE INFORMATION.

APPRENTICESHIP (Follow these steps to find specific apprenticeships available in this pathway.)	MILITARY SERVICE	TECHNICAL CERTIFICATE/ LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S OR ADVANCED DEGREE
STEP 1: Apprenticeship Registration and Tracking System	Electronics Technician	<u>Diesel Technology:</u> Bates Technical Grays Harbor College	<u>Diesel and Heavy Equipment Technology:</u> Bates Technical Centralia College Grays harbor College Spokane Community College	
STEP 2: Search by "Occupation" using key words below <ul style="list-style-type: none"> • Marine • Diesel 	Boatswain's Mate	<u>Hydraulics/Pneumatics Certificate:</u> Bates Technical College	<u>Motorcycle and Marine Technology:</u> Bates Technical College	
STEP 3: Click "Search" and select a program name for the program standards, qualifications, and how to apply	Engineman	<u>Marine Engineering Technology:</u> Seattle Central College	<u>Marine Maintenance Technology:</u> Skagit Valley College	
				<u>CTE Secondary Education Teacher:</u> <ul style="list-style-type: none"> • Education Degree in a CTE program area with 2,000 hours of related work experience. • Industry Route Certificate requires 6,000 hours of work experience in the field and completion of a state approved CTE Preparation Program along with passage of Basic Skills Math and English.

COURSE INFORMATION

COURSE NAME	CIP CODE	STATE COURSE CODE	TEACHER CERTIFICATION CODE
Diesel and Marine Technology	470616	20111	V460200 V490300



Washington Office of Superintendent of
PUBLIC INSTRUCTION