

DIESEL TECHNOLOGY, ASSOCIATE IN APPLIED SCIENCE



College(s): OH

Program Code: 0400

The Associate in Applied Science degree in Diesel Technology equips students with the skills necessary to repair and maintain diesel-powered highway, industrial, and marine vehicles and equipment. Students will gain more detailed instructions in how diesel maintenance techniques and principles are applied in diagnosing malfunctions and prescribing corrective action. The course work highlights diesel service management, critical thinking and problem solving, theory and skills of refrigeration, electronic and mechanical fuel injection, chassis maintenance, vehicle inspection, tune-up, engine overhaul, transmission repair, brake service, handling hazardous waste and preventative maintenance. Students will also be eligible to take the National Institute of Automotive Service Excellence (NAISE) examinations in heavy truck mechanics, Allison Transmission certification, and Hybrid certification.

Program Requirements

Code	Title	Hours
General Education Coursework		
ENGLISH 101	Composition	3
PHY SCI 102	General Course Physical Science	3
PHY SCI 112	General Course II Physical Science	4
Select one of the following:		
AFRO AM 101	Introduction to African-American Studies (HD)	3
HUM 143	Intro to Latin American/Latino Studies (HD)	
HUM 215	The Art and Philosophy of the African Continent (HD)	
GEOG 101	World Geography	3
or ECON 201	Principles Of Economics I	
Required Program Core		
MATH 107	Math For Technicians I	4

330TRNS 111	Introduction to Diesel Technology	3
330TRNS 112	Diesel Electrical Systems I	3
330TRNS 113	Introduction to Diesel Engine Construction	3
330TRNS 114	Diesel Engine Construction I	3
330TRNS 115	Suspension and Steering	3
330TRNS 116	Diesel Brakes	3
330TRNS 209	Diesel Electrical Systems II	3
330TRNS 211	Diesel Preventive Maintenance	3
330TRNS 213	Diesel Engine Construction II	3
330TRNS 214	Emission Controls	3
330TRNS 215	Diesel Engine Performance	3
330TRNS 216	Heavy Duty Drives I (Manual)	3
330TRNS 217	Heavy Duty Drives II (Automatic)	3
330TRNS 218	Heating and Air Conditioning	3
330TRNS 219	Hydraulic Systems	4
330TRNS 220	Advanced Diagnostics	4
Total Hours		70

At least one course must meet the Human Diversity (HD) requirement.

Pathway

This is an **example** course sequence for students interested in Diesel Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC), Advanced Certificate (AC) and Associate in Applied Science Degree (AAS) in Diesel Technology. One course will satisfy the Human Diversity (HD) requirement.

Semester-By-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Semester 1		Hours
MATH 107	Math For Technicians I ¹	5
330TRNS 111	Introduction to Diesel Technology	3
330TRNS 113	Introduction to Diesel Engine Construction	3
Hours		11
Semester 2		Hours
330TRNS 112	Diesel Electrical Systems I	3
330TRNS 114	Diesel Engine Construction I	3
330TRNS 115	Suspension and Steering	3
Hours		9
Semester 3		Hours
Social and Behavioral Sciences course ^{1,2}		3
PHY SCI 102	General Course Physical Science ¹	3
330TRNS 116	Diesel Brakes	3
330TRNS 209	Diesel Electrical Systems II	3
Hours		12
Semester 4		Hours
330TRNS 211	Diesel Preventive Maintenance	3
330TRNS 213	Diesel Engine Construction II	3
330TRNS 214	Emission Controls	3
Hours		9
Semester 5		Hours
330TRNS 215	Diesel Engine Performance	3
330TRNS 216	Heavy Duty Drives I (Manual)	3
330TRNS 218	Heating and Air Conditioning	3
Hours		9
Semester 6		Hours
ENGLISH 101	Composition ¹	3
330TRNS 217	Heavy Duty Drives II (Automatic)	3
330TRNS 219	Hydraulic Systems	4
330TRNS 220	Advanced Diagnostics	4
PHY SCI 112	General Course II Physical Science	4
Fine Arts & Humanities course ^{1,2}		3
Hours		21
Total Hours		71

¹ General Education course

² One course must satisfy the Human Diversity (HD) requirement

Choose your courses with your College Advisor.

Careers

This program can prepare students for the jobs listed below. Click on each one to learn more, including average earnings, annual job openings, and how much education people in that field have. For additional guidance and resources on career options, current City Colleges students and alumni can contact the Career Services Office (<https://www.ccc.edu/departments/Pages/Career-Services.aspx>).

Bus and Truck Mechanics and Diesel Engine Specialists

Job Description

Diagnose, adjust, repair, or overhaul buses and trucks, or maintain and repair any type of diesel engines. Includes mechanics working primarily with automobile or marine diesel engines.

Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardous-duty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

Annual Wages

Entry-Level 10 th Percentile	\$44,403
Median 50 th Percentile	\$63,802
Senior-Level 90 th Percentile	\$90,538

Hourly Wages

Entry-Level 10 th Percentile	\$21
Median 50 th Percentile	\$31
Senior-Level 90 th Percentile	\$44

Annual Job Openings

346 annual openings in Cook County

National Education Attainment

Here, you can see the level of education that people in this career complete.

Degree Program	% of Jobs
A high school diploma or less	37.89%
A certificate	39.49%
Some college	21.94%
An Associate degree	0.67%
A Bachelor's degree	0.00%
A Master's or Professional degree	0.00%
A Doctoral degree or more	0.00%

0.00% continue their education beyond an associate degree