

Scope and Sequence Diesel Truck Technology

Academic Subjects – Career success and postsecondary education success require the same level of college prep coursework. The Pennsylvania Department of Education’s (PDE) focus is to ensure that every student is prepared for college and a career. Academic courses such as applied math or general science cannot be listed on the program’s scope and sequence. PDE’s goal is to have all students perform at the competent or advanced level on the PSSA, and earn the Pennsylvania Skills Certificate on the end-of-program assessment.

	SECONDARY				POSTSECONDARY based on PENN COLLEGE OF TECHNOLOGY			
	Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade	Semester One	Semester Two	Semester Three	Semester Four
Technical Units		Demonstrate shop safety Operation of Diesel Engines Engine Components Service Lubrication Job Seeking/Keeping Skills Identify Fastener, Test equipment, and service tools Engine Calculations and Related Math	Inspect and Service Cooling Systems Welding- Arc, Oxyacetylene, and Fusion and cutting Service Fuel Systems Inspect and service Electrical Systems Job Seeking/Keeping Skills	Inspect and Service Power Trains Service Cab Components, Climate Control Systems Inspecting and Servicing Brakes Inspect and Service Suspension and Steering System Certification - State Inspection Certification - State Emission Inspection	DSM 108: Tools, Hardware and Failure Analysis DSM 115: Diesel Engines DSM 116: Diesel Engines Laboratory DSM 119: Fuel Systems	DSM 117: Introduction to Hydraulics DSM 140: Truck Tractor Chassis and Alignment DSM 141: Heavy Duty Brake Systems DSM 142: Power Train and Brake Systems Lab	DSM 240: Electronic Fuel Systems Operation / Diagnose DSM 241: Diesel Electronic Systems DSM 242: Diesel Equipment Air Conditioning Systems DSM 245: Allison Transmissions	DSM 258: Vehicle Electronics / Diagnostic Procedures DSM 268: Truck & Trailer Refrig Systems DSM 274: Equipment Maintenance Management DSM 275: Automated Power Train Products

English	College Prep English I	College Prep English II	College Prep English III	College Prep English IV			ENL 111: English Comp I	ENL 201: Technical & Professional Communication
Math	Algebra I	Algebra II	Geometry	College Prep Math (recommended)	MTH 124: Technical Algebra & Trig MTH 190: College Algebra and Trig I			
Science	Biology	Chemistry	Physics				PHS 103: Physics Survey PHS 114: Physics w/Technological Applications	
Humanities	Civics	American History	World Studies					_HUM: Elective:HUM/SSE/ ART/FOR/AAE
Other Required Courses/ Electives	Foreign Language I (recommended)	Foreign Language II (recommended)				DSM 120: Basic Electricity	FIT: Elective: Fitness	