

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.

Subject (Hours)	Secondary School				Postsecondary Institution			
	Grade 9 (Hours)	Grade 10 (Hours)	Grade 11 (Hours)	Grade 12 (Hours)	First Semester	Second Semester	Third Semester	Fourth Semester
Technical		Demonstrate Shop Safety	Inspect/Service Air Inductions, Exhaust & Cooling Systems	Conduct Preventive Maintenance	DSM 108: Tools, Hardware and Failure Analysis	DSM 117: Introduction to Hydraulics	DSM 240: Electronic Fuel Systems Operation/Diagnostic	DSM 258: Vehicle Electronics/Diagnostic Procedure
		Operation of Diesel Engines	Service Fuel Systems	Inspect & Service Brakes	DSM 115: Diesel Engines	DSM 140: Truck Tractor Chassis and Alignment	DSM 241: Diesel Electronic Systems	DSM 268: Truck & Trailer Refrig Systems
		Engine Compartments	Understand Computer Controls & Related Electrical	Inspect & Service Suspension & Steering System	DSM 116: Diesel Engines Laboratory	DSM 141: Heavy Duty Brake Systems	DSM 242: Diesel Equipment Air Conditioning Systems	DSM 274: Equipment Maintenance Management
		Service Lubrication	Inspect & Service Electrical Systems	Certification – State Inspection	DSM 119: Fuel Systems	DSM 142: Power Train and Brake Systems Lab	DSM 245: Allison Transmissions	DSM 275: Automated Power Train Products
		Job Seeking/Keeping Skills	Service Starting, Charging & Lighting System	Certification - State Emission Inspection				
		Identify Fastener, Test Equipment & Service Tools	Battery Service	Job Seeking/Keeping Skills				
		Engine Calculations & Related Math	Job Seeking/Keeping Skills					
		Job Seeking/Keeping Skills						
English	College Prep English 9	College Prep English 10	College Prep English 11	College Prep English 12			ENL 111: English Comp I	ENL 201: Technical & Professional Communication
Math	Algebra I	Geometry	Algebra II	Trigonometry	MTH 124: Technical Algebra & Trig I			
					MTH 190: College Algebra and Trig I			
Science	Accl Integrated Science	Biology	Chemistry				PHS 103: Physics Survey	
							PHS 114: Physics w/Technological Applications	
Humanities	Citizenship	World Cultures	American History I	American Government				_HUM: Elective:HUM/SSE/ART/FOR/AAE
Other	Physical Education	Physical Education	Physical Education	Physical Education		DSM 120: Basic Electricity	FIT: Elective: Fitness	
	Health	Health	Driver's Ed Theory					