Blueprint for Instruction and Assessment

Medium/Heavy Vehicle and Truck Technology

47.0613.00

Domain	Related Standards	Instructional Time
Domain 1 Electrical and Electronics	**STANDARD 13.0** PERFORM GENERAL ELECTRICAL/ELECTRONIC SYSTEM DIAGNOSIS AND REPAIR **STANDARD 14.0** PERFORM BATTERY DIAGNOSIS AND REPAIR (LOW VOLTAGE) **STANDARD 15.0** PERFORM STARTING SYSTEM DIAGNOSIS AND REPAIR **STANDARD 16.0** PERFORM CHARGING SYSTEM DIAGNOSIS AND REPAIR **STANDARD 17.0** PERFORM LIGHTING SYSTEM DIAGNOSIS AND REPAIR **STANDARD 18.0** PERFORM ELECTRIFIED VEHICLE HIGH VOLTAGE SAFETY	30 - 35%
Domain 2 Inspections	**STANDARD 2.0** PERFORM PRE-TRIP INSPECTION **STANDARD 3.0** PERFORM LUBRICATION SYSTEM PERFORMANCE MAINTENANCE (PM) **STANDARD 4.0** PERFORM COOLING SYSTEM PERFORMANCE MAINTENANCE (PM) **STANDARD 5.0** PERFORM AIR INDUCTION AND EXHAUST SYSTEM PERFORMANCE MAINTENANCE (PM) **STANDARD 6.0** PERFORM FUEL SYSTEM PERFORMANCE MAINTENANCE (PM) **STANDARD 7.0** PERFORM DRIVE TRAIN PERFORMANCE MAINTENANCE (PM) **STANDARD 12.0** PERFORM FRAME AND FIFTH WHEEL PERFORMANCE MAINTENANCE (PM)	25 - 30%
Domain 3 Brakes	**STANDARD 8.0** PERFORM AIR BRAKE SYSTEM PERFORMANCE MAINTENANCE (PM) **STANDARD 9.0** PERFORM HYDRAULIC BRAKE SYSTEM PERFORMANCE MAINTENANCE (PM) **STANDARD 10.0** PERFORM SUSPENSION AND STEERING SYSTEMS PERFORMANCE MAINTENANCE (PM) **STANDARD 11.0** PERFORM TIRE AND WHEEL PERFORMANCE MAINTENANCE (PM)	15 - 25%
Domain 4 Safety	**STANDARD 1.0** PERFORM AUTOMOTIVE SHOP AND SAFETY TASKS	15 - 20%

Content domains are knowledge, skills, and abilities to be taught and assessed. They illustrate the relationship among technical standards, instructional time, and student success on the Technical Skills Assessment. This blueprint corresponds with the Technical Standards endorsed on July 12, 2026.