

Blueprint for Instruction and Assessment

Heavy Equipment Operations

49.0200.00



Domain	Related Standards	Instructional Time
Domain 1 Safety and Operations	STANDARD 1.0 EXAMINE BASIC HEAVY EQUIPMENT OPERATION STANDARD 2.0 PRACTICE HEAVY EQUIPMENT OPERATION SAFETY STANDARD 3.0 IDENTIFY TYPES OF HEAVY EQUIPMENT STANDARD 4.0 DEMONSTRATE BASIC HEAVY EQUIPMENT OPERATION STANDARD 6.0 PERFORM EARTHMOVING OPERATIONS	35 - 40%
Domain 2 Material Handling and Compaction	STANDARD 7.0 OPERATE A DUMP TRUCK STANDARD 8.0 OPERATE A ROLLER STANDARD 9.0 OPERATE A SCRAPER STANDARD 11.0 OPERATE A FORKLIFT	15 - 20%
Domain 3 Excavation	STANDARD 10.0 OPERATE A LOADER STANDARD 13.0 OPERATE A BACKHOE STANDARD 14.0 OPERATE AN EXCAVATOR	15 - 20%
Domain 4 Grading and Leveling	STANDARD 5.0 PERFORM GRADING OPERATIONS STANDARD 12.0 OPERATE A DOZER STANDARD 15.0 OPERATE A MOTOR GRADER STANDARD 16.0 COMPLETE FINISHING AND GRADING WORK	15 - 20%
Domain 5 Site Plans	STANDARD 17.0 DEMONSTRATE KNOWLEDGE OF SOILS STANDARD 18.0 PLAN CONSTRUCTION SITES STANDARD 19.0 PERFORM EXCAVATION MATH STANDARD 20.0 INTERPRET CIVIL BLUEPRINTS	5 - 10%

Content domains are knowledge, skills, and abilities to be taught or assessed. They are clustered as related to technical standards for instruction. The suggested percentage of instructional time is listed for each domain. This blueprint corresponds with the Technical Standards endorsed on December 18, 2012 and reviewed in Spring 2022.

