

Part 1: Heavy Equipment Operator Program

This is a combination of both the Commercial Driver's License and Heavy Equipment Programs. The first segment of the program will teach students how to safely operate large construction equipment such as backhoes, hydraulic excavators, rubber tire loaders/dozers, vibrating rollers, and more. In addition to operating equipment, students will learn to do site surveying, laser leveling, building layouts, footers, trenching, piping, reading prints, and more.

SAFETY ~ 60hr

Knowledge of your own personal limitations; inspection of job site; utilization of personal protective equipment; awareness into handling toxic material through MSDS; trenching and cave in awareness; utilizing proper hand signals; familiarization of OSHA laws, regulations, and certification; fall protection.

FIELD ENGINEERING ~ 40hr

Utilizing practical math skills to incorporate building and project layouts; computing elevations; plan reading; understanding grades and elevations; utilizing scales, rules, and theories during field engineering.

SURVEYING TECHNIQUES ~ 40hr

Instructions and proper handling of precision equipment and their components.

SUITABILITY & APPLICATION OF HEAVY EQUIPMENT ~ 40hr

Operating techniques within specific job requirements; utilizing the proper equipment for the task at hand; knowing equipment limitations; understanding safe operation of equipment.

EQUIPMENT MAINTENANCE PROCEDURES ~ 20hr

Inspection of equipment; utilize proper fluids instrumental for proper operation; reading and understanding equipment maintenance manuals; utilization of a complete preventative maintenance program.

HEAVY EQUIPMENT FIELD PRACTICUM ~ 200hr

Familiarizing and coordinating the operation of tracked loaders, rubber tire backhoes, tracked excavators, tracked dozers, and soil compactors. Excavation of earth and construction of projects utilizing knowledge gained from classroom instruction.

Part 2: CDL Class A Program

Students obtain extensive training including pre-trip inspections, backing maneuvers, and all types of road driving. Students will be prepared for both CDL knowledge (written and driving) tests leading to a Commercial Driver's License.

CLASSROOM ~ 160 HOURS

WEEK ONE ~ 40hr

BASIC OPERATION

Orientation, Control Systems/Dashboard, Pre-Trip & Post-Trip Inspections, Basic Control, Shifting/Operating Transmissions, Backing and Docking and Coupling & Uncoupling (Class A only)

SAFE OPERATING PRACTICES

Visual Search, Communication, Distracted Driving, Speed & Space Management, Night Operation and Extreme Driving Conditions.

WEEK TWO ~ 40hr

ADVANCED OPERATING PRACTICES

Hazard Perception, Skid Control/Recovery, Jackknifing, Other Emergencies and Railroad-Highway Grade Crossing.

VEHICLE SYSTEMS & REPORTING MALFUNCTIONS

Identification and Diagnosis of Malfunctions, Roadside Inspections and Maintenance

NON-DRIVING ACTIVITIES

Handling and Documenting Cargo, Environmental Compliance Issues, Hours-of-Service Requirements, Log Books, Fatigue and Wellness Awareness, Post-Crash Procedures, External Communication and Whistleblower/Coercion.

WEEK THREE ~ 40hr

NON-DRIVING ACTIVITIES CONTINUED

Drugs/Alcohol, Medical Requirements, Human Trafficking, CSA, Special Rigs, Crossing Border and Basic Business Practices

WEEK FOUR ~ 40hr

NON-DRIVING ACTIVITIES CONTINUED

CDL Prep and Driving Simulator

LAB – HANDS ON ~ 40 HOURS

WEEK FIVE ~ 40hr

LAB/RANGE/ROAD

Pre-Trip Inspections, Coupling/Uncoupling, Basic Principles and Basic Shifting Principles

ROAD – HANDS ON ~ 200 HOURS

WEEK SIX ~ 40hr

RANGE/ROAD

Driving

WEEK SEVEN ~ 40hr

RANGE/ROAD CONTINUED

Driving

WEEK EIGHT ~ 40hr

RANGE/ROAD CONTINUED

Advanced Techniques – Loaded Trailer

WEEK NINE

RANGE/ROAD ADVANCED TECHNIQUES

Loaded Trailer – Advanced Shifting

WEEK TEN ~ 40hr

RANGE/ROAD ADVANCED TECHNIQUES CONTINUED

CDL Test and Graduation