



CDL Class A Truck and Trailer Simulation Curriculum

Simulated Equipment Specs

Total weight: 7,900–8,850 kg (17,500–19,500 lb)

Max input torque: 3,050 N·m (2,250 lb-ft)

Transmission: 12-speed automatic

Max engine speed: 1,800 rpm

Overview

The Intellia Commercial Driver's License (CDL) Class A Truck and Trailer Simulation Curriculum prepares heavy equipment operators for Class A certification and real-world driving with simulation-based training that mirrors exam exercises and road conditions. From basic vehicle handling to coupling and precision backing maneuvers, repeatable exercises help trainees build confidence and correct habits before operating on public roads.

Key Features & Benefits

Core CDL Maneuvers: Practice alley docking, offset backing, parallel parking, and forward stops repeatedly to build test-ready consistency.

Realistic Road Dynamics: Train with traffic, blind spots, accurate suspension, and jackknife behavior to reinforce safe decision-making under pressure.

Objective Performance Tracking: Track collisions, lane departures, abrupt braking, and missed safety steps to identify gaps and verify readiness.



A Complete Training Solution

The CDL Class A Truck and Trailer simulation curriculum guides trainees from foundational yard skills to real-world driving. Students begin with essential maneuvers such as turning, backing, coupling, uncoupling, and yard operations before advancing to road and highway driving in live traffic conditions. This structured progression helps trainees build the confidence, consistency, and muscle memory needed to prepare for the CDL Class A practical exam.

Built on CM Labs' simulation platform, the CDL Class A Truck and Trailer simulation curriculum replicates truck and trailer dynamics with engineering-grade vehicle behavior. This includes realistic mirror-based blind spots, precise coupling alignment, pneumatic braking lag, and jackknife physics, giving trainees an experience that closely reflects actual vehicle performance.

Instructors can easily repeat scenarios and introduce changing weather, reduced visibility, and higher risk situations without taking a live truck out of service. This flexibility allows training programs to standardize instruction, monitor progress across roles, and document performance against required skills and safety criteria.



Dedicated to Your Training Success

CM Labs' simulators are built to last and designed for years of 24/7 operator training. The CDL Class A Truck and Trailer Simulator Curriculum is compatible with hardware configurations designed to fit your budget, space, and training requirements. Choose from:

- Portable **Edge Plus** desktop series
- Compact motion-enabled **Edge Max** series
- Fully immersive **Advantage** series

Learning Outcomes

- ✓ Operate with trailer attached
- ✓ Operate without a trailer attached
- ✓ Execute coupling and decoupling
- ✓ Navigate public roads in traffic
- ✓ Position for wide turns
- ✓ Perform an alley dock maneuver

Performance Metrics

The training pack tracks critical equipment metrics, including:

- ✓ Car collision
- ✓ Building or pole collision
- ✓ Crossed yellow line
- ✓ Abrupt brakes
- ✓ Seatbelt usage

Compatible Industry-Grade Controls

- ✓ Standard steering wheel (required)
- ✓ Cobra Joysticks