



Bucket Truck Simulation Curriculum

Overview

The Intellia Bucket Truck Simulation Curriculum, created in partnership with Altec, prepares utility operators for safe overhead work with consistent, standardized simulation-based training that mirrors real working conditions, such as stabilized setup, positioning tasks, and job-site hazards. The curriculum covers fundamental controls, machine setup, precise bucket positioning, and jib-supported lifting operations, helping operators build confidence and develop correct habits before working at height around energized assets.

Simulated Equipment Specs

Based on Altec AA55 Bucket Truck

Ground to platform: 16.8 m (55 ft)

Working height: 18.3 m (60 ft)

Platform capacity: 318 kg (700 lb)

Jib capacity: 907 kg (2,000 lb)

Key Features & Benefits

Authentic ISO-Grip™ Controls:

When equipped with Altec ISO-Grip™ controls, trainees can practice with the actual hardware that reinforces precise movements and supports skill transfer to field equipment.

Flexible seated or standing

operation: Trainees can train either seated or standing to match different operator preferences and training setups, with standing mode designed to emulate real bucket work.

Learn to navigate a bucket

properly: Trainees learn to stabilize the truck, then safely navigate and position the bucket using the controls.



A Complete Training Solution

The Bucket Truck Simulation Curriculum is part of the Intellia Workforce Training System and the broader Utilities training portfolio, which includes overhead and underground utility equipment safety training.

Built on CM Labs' proprietary core technology and physics-based simulation, the curriculum replicates bucket truck behavior, including outrigger stabilization and coordinated boom, bucket, and jib movement for overhead work around utility poles and a substation environment.

Trainers can then take lessons to the next level with the Intellia Training Management Tools, which offer next-generation reporting, trainee monitoring, and custom learning path planning features.



Dedicated to Your Training Success

The Intellia Workforce Training System is a workforce development solution that standardizes, manages, and scales simulation-based operator training. By connecting the simulation curriculum, training management tools, and AI-assisted learning, instructors gain real-time monitoring and reporting while operators follow structured, physics-based exercises that build precision machine control and job-ready skills.

Learning Outcomes

- ✓ Executing proper stable machine setup and stabilization procedures
- ✓ Using precise control inputs to position the bucket accurately at the required height
- ✓ Navigating around obstacles
- ✓ Controlling jib-assisted lifts
- ✓ Responding to positioning hazards

Performance Metrics

Tracks critical performance, safety, and productivity metrics, including:

- ✓ Safety violations (collisions, powerline proximity)
- ✓ Boom/bucket positioning accuracy
- ✓ Task completion time
- ✓ Quality of operation (hard bucket landing)
- ✓ Missed setup steps
- ✓ Machine stability

Simulator Options

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

Compatible Industry-Grade Controls

- ✓ Altec ISO-Grip™ controls on the Advantage series
- ✓ Cobra controls (seated operating position supported)

