Motor Grader Simulation Curriculum

Simulated Equipment Specs

Operating weight: 20,303 kg (44,760 lbs)
275 variable horsepower
8-speed power shift transmission
6-wheel drive
On-demand locking differential
Blade pull: 17,913 kg (39,491 lbs)

Overview

The Intellia Motor Grader Simulation Curriculum delivers high-fidelity training designed to reflect real-world motor grader operation. From controls familiarization to grader positioning, windrow management, material spreading, and V-ditch creation, the simulation curriculum teaches what operators need to know for efficient motor grader operations.

Key Features & Benefits

A progressive learning program covering skills ranging from controls familiarization to windrow management, material spreading, V-ditch operations, and side-draft.

Detailed performance metrics & reporting that provide trainers with objective feedback on operator habits and skills.

Best-in-class simulation that ensures trainees learn by feel, just as they would on the real equipment.

A Complete Training Solution

The Intellia Motor Grader Simulation Curriculum simulates a completely open training environment, meaning that you'll never be locked into rigid, scripted scenarios. All challenges have multiple possible solutions, leaving it to the operator to exercise skill, creativity, and good judgment to solve problems, just as they would in the real world.

Trainers can 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. The simulation curriculum can also be supplemented with CM Labs' optional add-on modules, including Trimble® Earthworks Grade Control, designed to address specific needs.

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

- Walkaround inspection
- Control familiarization
- Loading & unloading from lowboy trailer
- Stuck in mud
- Windrow management
- Material spreading
- Leveling with obstacles
- V-ditch operations

Performance Metrics

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

- Blade efficiency
- Blade contacts with wheels or obstacles
- Grade quality
- Idle time and cycle time
- Fuel consumption

Simulator Options

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

Compatible Industry-Grade Controls

- Uni-directional pedals
- Steering wheel
- Joysticks

cmlabs

645 Wellington Street,
Suite 301
Montreal, Quebec,
Canada H3C 1T2

info@cm-labs.com
cm-labs.com
T +1 514 287 1166