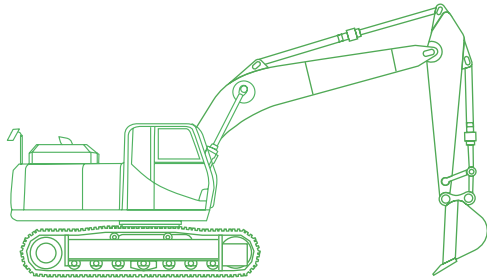


Tracked Excavator Training Pack



Simulated Equipment Specs

Hydraulic excavator:

21t (23 USt)

Engine: 119 kW / 160 hp

Swing speed: 13.3 RPM

Long carriage

Heavy-duty bucket

Halogen working lights

ISO and SAE Joystick Controls

Overview

The Intellia Tracked Excavator Training Pack immerses trainees in a virtual environment that promotes safe, rapid skills acquisition—from excavating to trailer loading, trenching, safety corridor management, and using the Trimble® Earthworks Grade Control Platform.

By training operators in this virtual world, organizations will see reduced wear and tear on their equipment, while simultaneously reducing risks to novice operators and other personnel.

Key Features & Benefits

The training pack focuses on the three training pillars: safety, technique, and efficiency. While it automatically detects safety violations—including contacts with power lines or people, hazardous load trajectories, and turnovers—it also captures objective metrics to indicate technical proficiency and efficiency, including completion time, movement efficiency and accuracy, bucket efficiency, and more.

A progressive learning program

covering standard duties such as trenching, bench loading, and load handling in a realistic worksite.

Performance metrics & reporting

that show trainees how to safely handle equipment and perform efficient excavation operations.

Best-in-class simulation

ensures real skills development and learning opportunities that are not available on real machines.



A Complete Training Solution

High-quality visuals are included in CM Labs' hallmark authentic machine and worksite behaviors, along with the most advanced soil simulation in the industry. This award-winning simulation training is the result of decades of academic research, collaboration with subject matter experts, and partnerships with leading OEMs—resulting in an engaging learning experience that translates directly into worksite skills.

The training packs' advanced learning tools include the Trimble Earthworks Grade Control Platform, which runs off a tablet connected to the simulator. Visual aids are overlaid onto the existing ground along with cut/fill information, slope data, and other customizable reference points to provide the trainee with a better understanding of the work that needs to be done.

Trainees and instructors can change the time of day at any moment during exercises, in order to practice for nighttime operations, for example. They can also introduce inclement climate conditions, which can be difficult or impossible to recreate in a training yard.

The optional *Intellia Instructor* training management allows instructors to generate reports from training sessions, create learning paths, trigger live faults and weather challenges, and make use of many other benefits. This improves learning retention and allows instructors to save valuable time as a result of streamlined administrative functions.

Supported CM Labs Hardware Platforms

The Intellia Tracked Excavator Training Pack can be installed on any CM Labs simulator hardware platform, with different configurations to meet your budget, space, and training requirements. Built to last, the simulators are designed for years of 24/7 operator training.

The training pack runs on CM Labs' motion-enabled Edge Max, the fully immersive Advantage, and the desktop series Edge Plus.

Learning Program

The training pack features the most complete collection of progressive learning exercises on the market. Ranging from beginner to advanced, exercises are designed to safely build trainee skill and confidence:

- ✓ Walkaround inspection
- ✓ Controls familiarization
- ✓ Swing, boom, and stick control
- ✓ Loading and unloading from trailer
- ✓ Picking up and handling loads
- ✓ Pipe placement in trench
- ✓ Traveling and proper positioning
- ✓ Bench loading into a haul truck
- ✓ Precision trenching with Trimble Earthworks

Performance Metrics

Only with CM Labs metrics will instructors gain valuable objective insight into operator performance and abilities, such as:

- ✓ Completion time
- ✓ Movement efficiency and accuracy
- ✓ Maximum shock loads
- ✓ Volume of material excavated per bucket load and in total
- ✓ Fuel consumption, cycle time, & idle time
- ✓ Safety violations including contact with power lines, personnel, or vehicles



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

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

Vortex® is a registered trademark of CM Labs Simulations, Inc.