



# Wheeled Excavator Simulation Curriculum

## Simulated Equipment Specs

**Included attachments:** narrow heavy-duty bucket and tiltrotator bucket  
Quick coupler  
**Operating capacity:** 21 t (23 US t)  
**Engine power:** 119 kW (160 hp)  
**Swing speed:** 13.3 RPM

## Overview

The Intellia Wheeled Excavator Simulation Curriculum delivers highly realistic training by authentically replicating machine behaviors and soil properties. As a result, it allows operators to effectively reduce the risk of accidents, improve situational awareness, and increase productivity, all of which are essential for safe operation in urban worksites.

## Key Features & Benefits

**Progressive learning program** that covers essential skills such as trenching, loading, handling, and unloading materials in a realistic worksite.

**Detailed performance metrics and reporting** that provide instructors with objective real-time feedback on operator aptitudes, habits, and overall scores.

**Training with two included attachments**, a tiltrotator and a thin bucket, for a well-rounded and thorough learning experience.



# A Complete Training Solution

Backed by decades of award-winning research and composed of proprietary and patented algorithms, the Wheeled Excavator Simulation Curriculum offers an unparalleled level of realism. This curriculum's authentic machine behavior and award-winning soil simulation allow operators to develop a better understanding of the machine's tipping behavior and wheel bounciness on various terrains.



Trainers can also 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

- ✓ Controls familiarization
- ✓ Live quick coupler attachment changing
- ✓ Driving skills in an urban environment
- ✓ Loading and unloading a trailer
- ✓ Arc swipe
- ✓ Truck loading
- ✓ Test weight
- ✓ Freeform sandbox in urban environment to practice skills, creative problem-solving, and good judgment

## Performance Metrics

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

- ✓ Completion time
- ✓ Cycle Time
- ✓ Cones touched or knocked over
- ✓ Volume of material excavated per bucket load and in total
- ✓ Safety violations & collisions: vehicle flip, unsafe parking, and contacts with power lines, humans, fire hydrants, and vehicles

## Simulator Options

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

## Compatible Industry-Grade Controls

- ✓ Uni-directional foot pedals
- ✓ Steering wheel
- ✓ Control boxes