



Risk Free Training in a PC based Simulator **TEACH REAL-WORLD OPERATING SKILLS**

- Pre-Screen Trainees for Operator aptitude
- Prepare Trainees for real world seat time
- Upgrade Skills to meet higher standards

SIMWORX Hydraulic Excavator Simulator

Training heavy equipment operators is hard and costly. Hard, because you're teaching skills, and that takes lots of practice under careful supervision.

Costly, because all that practice is expensive with wear-and-tear on real equipment, not to mention instructor costs. A good simulator removes the risks to people and equipment when you've got trainees at the controls of your equipment!

The Excavator simulator puts you at the controls of a modern hydraulic excavator at work in a typical construction site. You can change your view point *during* the simulation to change the operator's point of view.



Realistic Hydraulic Excavator Simulator

For each simulation module, you can change the viewpoint during the simulation, from inside the cab to up overhead for a better view of the job site. Audio feedback is also provided, with sounds recorded from real machines and transmitted via a built in quality sound system. Vibration via integral vibration transducers completes the immersive operator's experience.

The fixed location Triple Screen Display version of the Track Excavator Simulator also gives the operator an immersive viewpoint with spatial awareness so critical to heavy machinery operation

EXCAVATOR SIMULATOR TRAINING

Simulator-based training is:

- completely safe
- always available 24/7
- Trainer monitored, since it's easy to keep track of results
- accelerated, because our instruction design presents simulated tasks that are progressively more difficult, in order to break up the learning into small "steps" which build upon each other
- self-paced, i.e. each simulator user can advance from module to module at his/her own speed.
- Consistent, because the same exercises are presented to everyone, making it possible to really compare the performance of different people
- Generic, since people learn the essentials of operating heavy equipment without manufacturer-specific details, making it easy to proceed to "hands-on" training on a variety of real equipment
- simulator-based training improves motivation by fostering a completely new attitude toward learning!

Easy to use menu selection of types of simulation trials.

There are a total of seventeen "Simulation Modules" of increasing difficulty, starting with Controls Familiarization, followed by exercises to coordinate the control of the boom, stick, swing, and bucket. Intermediate modules feature trench crossing using "boom jacking", and climbing/descending benches. After that come the digging, trenching, and truck loading modules with both simulated dirt *and* boulders.

Dimensions



The Mobile Excavator Simulator

This Mobile Excavator simulator with industrial controls is the most compact, cost effective, versatile and realistic way to train and assess potential operators using quality Simulation platforms.

The Mobile Simulator is designed to be used with an instructor and is configured with Replica Excavator Controls.

The complete configuration incorporates Replica Joystick Controls and Pedal Unit featuring the very same shape and toe-down/heel-down action of real hydraulic excavator Pedals. It can be supplied with 2 screen options, a large 50" LED UHD single screen or 43" Triple UHD Screen primary displays.

Key Features

- Authentic industrial operator seat, with headrest
- Adjustable seat position (forwards/backwards, up/down)
- Adjustable armrests (in height and angle)
- Integrated consoles for left and right joysticks
- Replica Controls and excavator pedals
- Steel platform, with heavy-duty casters for easy portability
- Energy Efficient – Ideal for Portable Classroom use

Nett Weight 180kgs Voltage 230V-240V @ 1.8Amps (450W)



The SIMWORX Half Cab Excavator Simulator



An accurate representation of a typical machine cab layout using replica controls, operators chair, built in PC, sound system, vibration transducers and dedicated software. Features typical Joysticks and track pedals with handles, safety handle and comes in single or optional triple screen formats.

Simulation Modules

Software features 16 "Simulation Modules", as follows:

- Controls Familiarization
- Excavator Positioning
- Levelling for coordinating the movements of the boom, stick, and bucket
- Levelling Ground Exercise
- Bench Climbing/Descending/obstacles
- Trench Crossing, with "boom jacking"
- Loading on Flat Tray exercise
- Single-Pass Dig and Dump
- Trenching
- Trench and Load
- Bench Loading with Truck Spotting
- Ramp Building
- Backfilling
- Scribing and Ditching Exercise
- Crushing Stones Exercise

The Cab Controls Layout

