

SIMULATOR TRAINING

Manage skills, monitor progress



TAKE IT UP A LEVEL

Reducing costs, while increasing productivity and safety, is a challenge that customers face every day. Reliable and efficient machines play an important part in achieving this, but it is the performance of the operator that really makes the difference.

Whether you need to hire, train or evaluate, with a Volvo Simulator you can do it all, without needing to take a machine out of production. Volvo Simulators use the latest technology to take operator development to the next level.

Volvo Simulators give you answers

Are your operators the best they can be?

"Our best operator tried the articulated hauler simulator and we were surprised when he didn't get a great score."

In this example from a worksite in Europe, the operator used the parking brake instead of the load and dump brake function. It was incorrect machine use adding wear and tear and would have been almost impossible to identify simply by watching someone operate a real machine.

Who is the best person for the job?

"We had no time to train operators, so we hired operators already trained to the level we needed."

In North America, Volvo Simulators have been used to improve the quality of new hires, by screening operators during the recruitment process.

"We want to make sure our operators spend their time doing what they do best."

At a worksite in Asia, Volvo Simulators are used to rate operators into different categories, matching their skill levels accordingly.

Who would benefit from training?

"I want to ensure time and money on training is spent wisely."

Assessing who needs training, and what type of training, can be a challenge. With Volvo Simulators, identifying operator training requirements is easy and effective.

Easily justify the return on investment gained from training with Volvo Simulators. Once training is completed, improvement metrics allow the easy review of training output and results.

A Real World Experience, Minus the Cost

- No production loss: your machines keep working
- No wear and tear on real machines
- No fuel consumption
- No risk to site personnel or machinery
- Whatever the weather, wherever you are
- A single instructor can train multiple individuals

VIRTUAL WORLD, REAL BENEFITS

Volvo Simulators look and behave just like real machines, combined with advanced features to support evaluation and development. By working with the very best tools, instructors are better equipped to help operators meet the high demands placed on them in today's construction industry.

Meaningful evaluation

Once an exercise is complete, the system provides insights on operator performance and areas for improvement, through simple charts. Progress can be translated into a metric which most reflects the training objectives, such as money saving, productivity increases or reduction in emissions.

Tailor-made programmes

Instructors can choose between using a predefined programme or create a tailor-made path using the Operator Performance System.

Built-in tutorials

Built-in tutorials provide guided information to help operators improve at each exercise.

Efficient network

Connect multiple simulators to a single network, which can be monitored from a computer or mobile device using the Operator Performance System. Instructors can observe students and prepare training paths without needing to occupy a simulator.

Data analysis

Volvo Simulators track a multitude of data – such as RPM distribution and use of power boost – and come with a web interface to help analyse it. This powerful tool allows to easily evaluate performance and monitor the progress of an individual or group of operators. Data can also be exported for in-depth analysis.

Take on your targets

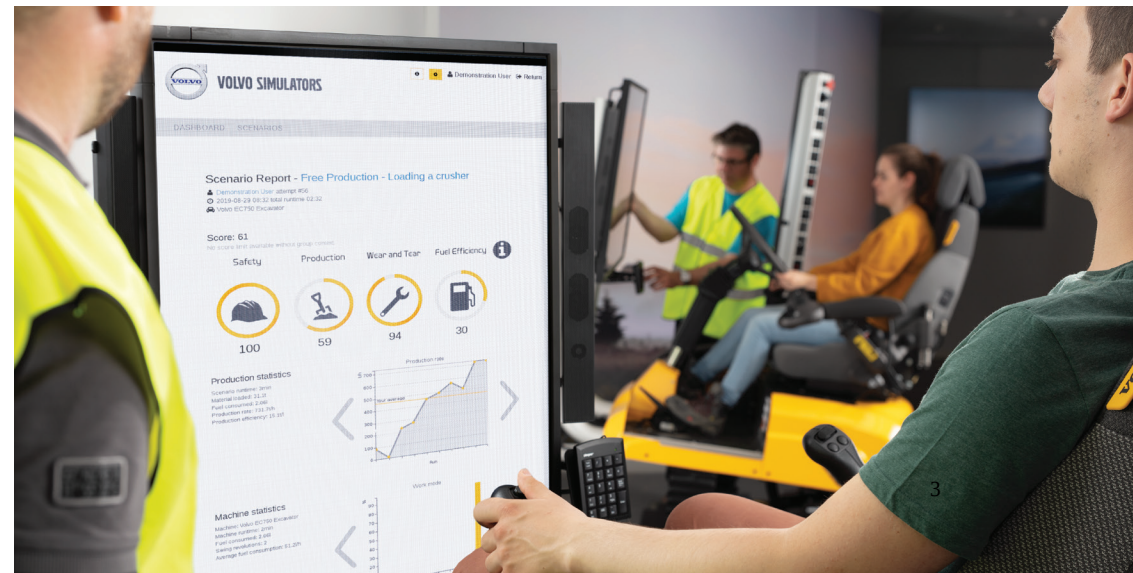
Based on criteria including fuel efficiency, productivity, wear and tear and safety, the system gives operators a total score on each exercise they complete. Comparing scores between classmates, colleagues or training targets creates additional incentives for operators to achieve their full potential.

Instant feedback

Operators get real-time feedback on their performance through easy-to-understand graphs, which can focus on specific areas, for example fuel consumption and safety.

Authentic scenarios

Built using actual data from Volvo machines and equipped with authentic controls, Volvo Simulators accurately replicate specific workplace conditions, including site setup and fleet configuration.



WHAT WE CAN OFFER...

Individual Operator

With individual training we will be able to drill down into the operators operating techniques and advise accordingly. The simulator will provide insights of operating behaviour and allow the trainer to advise and improve their operation.

Group Operation

With Group Training all operators are given the same scenario to complete. By providing a level playing field we are able to identify existing best practice in the group as well as provide focused areas for individual improvement. This could be especially useful for a team of operators working on the same site so that productivity is maximised through targeted training. Group Training can also be used as part of the recruitment process, allowing you the ability to select the best operators for hire based on fresh, easily comparable data.



Reporting

Individual operators are scored on four key points:

- Safety
- Production
- Wear and Tear
- Fuel Efficiency

Each attempt is plotted onto a graph to be able to highlight improvements and advise best practices.

With group operation, operators are scored individually, then the average score for each operator is plotted on a productivity graph showing who was most efficient within the group.



On Site Set Up

For simulator training to be carried out on site the below is required:

- Safe and dry building/room to meet the simulator measurement requirements
- Pallet fork access (single storey) required
- Power
- Insurance

Simulator Measurements:

Height: 1992mm
Width: 3096mm
Length: 2919mm
Weight: 283kg

