

# DRIVER TRAINING SIMULATION SYSTEM

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Redefine Driving Proficiency





## BENEFITS



Reinforces safe driving habits



Trains drivers to handle incidents



Consistent, holistic training supported by training analytics

**Up to 30%** reduction in on-road training; **Saves fuel** and **minimises damage** to operational vehicles

# LEADING-EDGE SIMULATION TRAINING

Simulation training re-enacts situations that drivers would face on the job and provides a platform where they may hone their skills, reflexes and good practices that are essential for the safety of passengers, other road users and business operations. ST Engineering offers state-of-the-art driving simulators that cater to the logistics, transport, and defence sectors.

Developed to meet industry operational and training needs, our suite of driving simulators provides high-fidelity and realistic virtual training experience for a wide range of vehicle types.

With features such as basic driving, advanced handling and integrated fleet training with the central control station, our simulators help to train competent drivers. Simulation training reduces risk to drivers and operational assets, while reducing cost by being more resource-efficient.



**Motor Vehicles**  
(Cars/Motorcycles)



**Passenger Vehicles**  
(Buses/Coaches)



**Military Vehicles**



**Heavy Goods Vehicles**



**Articulated Vehicles**



**Police, Fire & Emergency Response Vehicles**

## KEY FEATURES

### Realistic training

#### Localised road and traffic environments

- Terrain, traffic rules, lights and signages that's customised to your locality
- Immersive and relevant traffic conditions



Roads, landmarks and signages



Simulated vehicular and pedestrian traffic

#### Realistic vehicle controls and dynamics

- Driving cabins with functional controls that include switches, gear controls, steering wheel and dashboard display panels
- High fidelity vehicle physics model enhances performance realism



Accurate driving cabin replica



Integration of actual vehicle controls



## Targeted incident and scenario training

- Multi-level incident training e.g. roadworks, malfunction, cross-country driving, bad weather
- Defensive and operational incidents e.g. IED, artillery evasive actions, combat driving



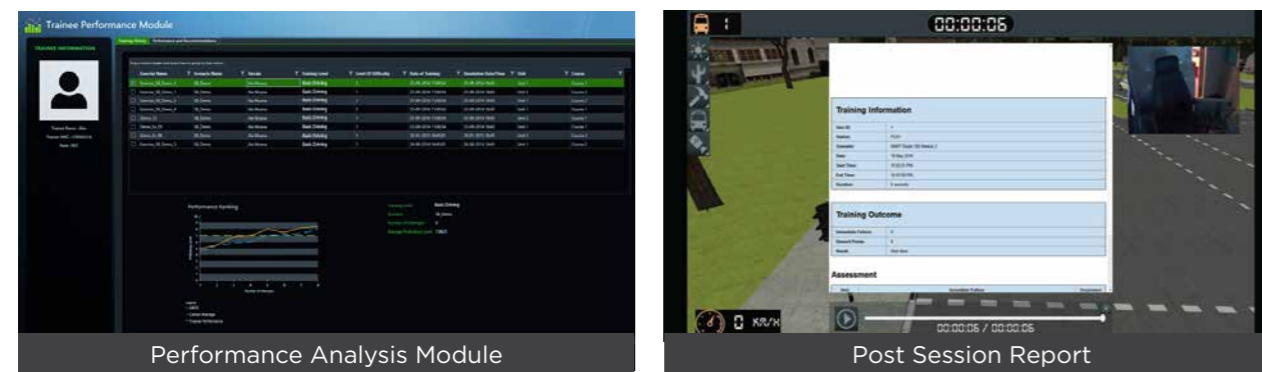
## Highly scalable configurations for collaborative team training

- Multiple cabins can be networked to support large-scale team-based training
- Flexible deployments- cabin kits of different vehicle models may be swiftly interchanged on a single simulator.
- Task specific roles for individual training
- Full crew coordinated training for integrated operation scenarios



## Comprehensive assessment and training analytics

- Objective assessment platform for instructors to monitor and assess driving performance
- Records and captures driver's adherence to rules, response to emergency situations, failures and driving techniques



**Optional:** Integrated Driving Evaluation Assessment System (I-DEAS), an intelligent assessment system that tracks both the driver's on-road and in-simulator driving performance for targeted training

## Simulation Training Centre Management and Operation Services

- Design, development and administration of simulation training centres
- Simulator operations and maintenance
- Instructor services



## WIDE RANGE OF TRAINING PLATFORMS

Our range of simulation training platforms caters to different training objectives and budgets. Being highly configurable, multiple vehicle cabins can be interchanged on a single trainer unit to optimise utility. Multiple simulators can also be linked, so that fleet training can take place in the same virtual environment.

Fidelity



### VR Driving Trainer

The VR driving simulator immerses the learner in the driving environment, with full 360 degree views from the driving cabin. Highly portable, this system helps organisations accomplish their training objectives with a minimal space footprint.



### Compact Driving Simulator

The compact driving simulator provides learners with a realistic training experience. It integrates a modified cabin, real driving controls coupled with a 120/180 degree field of view. The mobile trainer offers a cost-efficient option without compromising the driving performance and experience.



### Full-Scale Driving Simulator

The full-scale driving simulator delivers a highly realistic virtual training experience. Learners get to familiarise themselves with the actual controls and vehicle's blind-spots from the driving cabin.

It comprises:

- Full-size vehicle cabin
- 180/ 270 / 360 degree field of view
- Real vehicle controls (steering wheel, accelerator & brake, gear shifter, instrument panel, in-cabin switches)
- Full surround sound system

#### Optional:

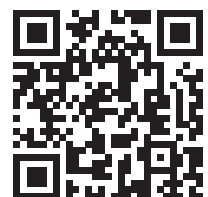
- 3 or 6 Degree Of Freedom Motion Platform
- Integration with vehicle on-board equipment

Hardware footprint

[www.stengg.com](http://www.stengg.com)  
[trainingsimulation@stengg.com](mailto:trainingsimulation@stengg.com)

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