

## ■ Bringing real-life simulation into training, assessment and planning

The Railway Engineering Company's (TRE) simulation systems are the ultimate component in the development and operation of efficient, safe and smooth-running rail control centres.

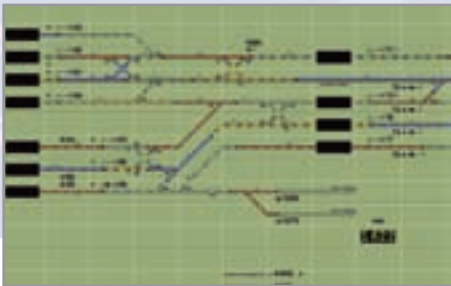
With solutions designed for IECC and for panels, and true to Network Rail standards, The Railway Engineering Company is a leader in its field. Through the creation of simulated control systems which mirror live timetable data, and track and signal circuits unique to any signalling panel box, TRESIM enables users to:

- train and assess signallers using real time data and scenarios, but in the safety of an off-line environment – helping to prepare signallers through personal experience to improve performance in decision-making within their operational environment
- introduce unplanned events to training scenarios providing a controlled exposure to managing stressful situations, helping signallers develop their personal skills
- provide extensive experience at dealing with SPADs
- train signallers in dealing with faults which can be introduced on demand
- plan and test timetable changes prior to introduction on Britain's railways
- help signallers manage regulation of trains

### ■ TRESIM for panels

- train describer displays and system to Network Rail standards
- signaller screens/interface to Network Rail standards
- simulates individual signaller positions
- simulates combined or split panels
- touch panels
- Automatic Route Setting System simulator (as required)
- Emergency Signals on Control sub system
- Cab Secure Radio and Signal Post Telephone simulation
- integrated voice communication with digital recording
- operates within a highly realistic signalling environment

The Railway Engineering Company provides the complete simulator package including scheme plan evaluation, design, testing, and verification with the timetable plus training and assessment packages. It also provides all hardware, software and installation.



## ■ TRESIM solution includes

A bespoke system is developed for all clients depending on their needs. However a typical TRESIM installation includes:

- self-standing, multiple indicator screens for the signaller, combined or split panels
- multi-screens control panel
- two screens station for trainer/ assessor, displayed in IECC format
- multiple PCs
- ESOC buttons
- touch-screen displays to simulate push-buttons on panels
- access to data from the live system

The Company also provides skilled staff and web-based support systems to ensure that after sales support allows the simulator to maintain its position as a central tool to boost performance of signallers.



## ■ Creating TRESIM

The Railway Engineering Company manages the project right through to delivery, aiming for minimal disruption for its clients. The outline process begins with a data collection phase from the chosen part of the railway to be simulated. This is then edited and the simulator is created. Extensive testing follows to ensure both reliability and accuracy of the simulation. TRE then delivers and installs the simulator using real SSI data and trains users, ready for signaller usage.

## ■ Meeting standards

The Company is fully conversant with, and its products are fully compliant with, standards including BSEN50128, BSEN50126 and BSEN50129.

All projects at The Railway Engineering Company are conducted using a bespoke, ISO9001 Business Management System. This quality of delivery is assured every day.

**For information or a discussion about access to the knowledge of TRE:**

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