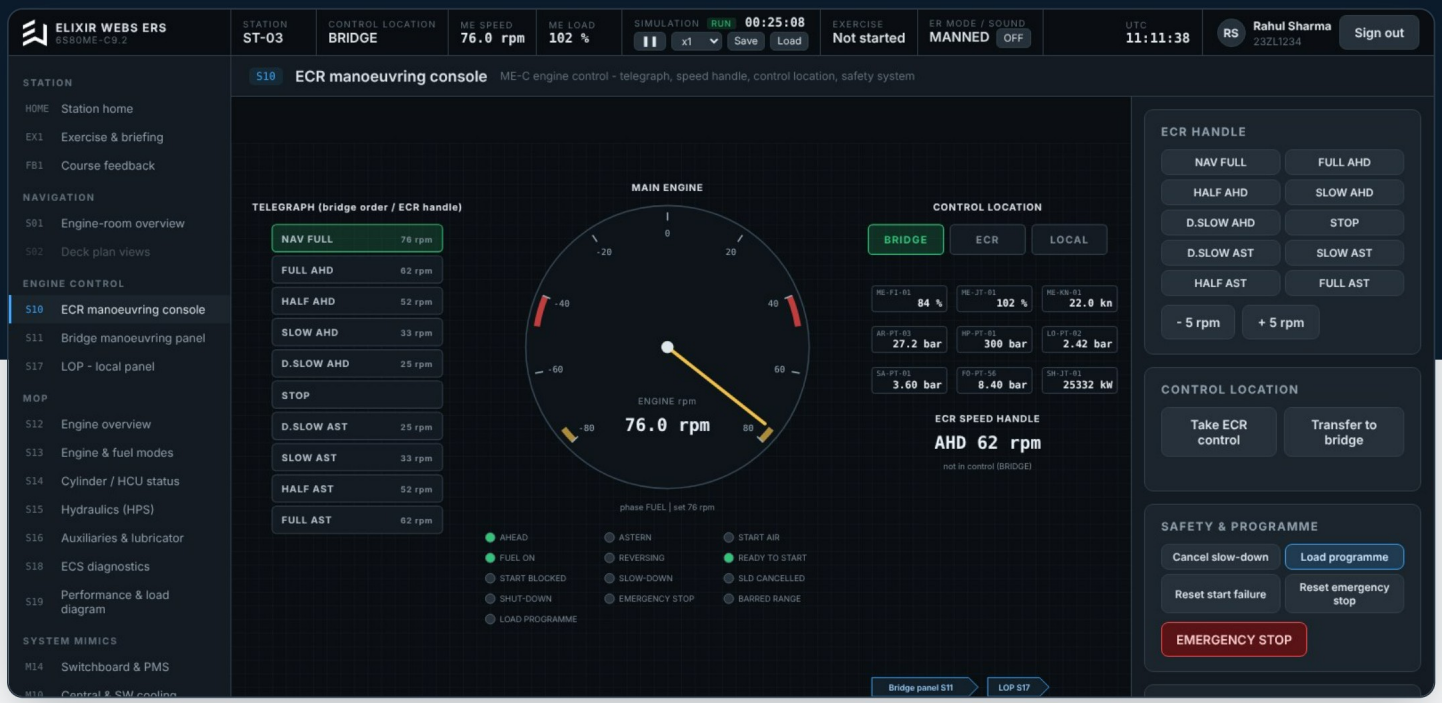
ELIXIR WEBS

VERSION 1.0

ENGINE ROOM SIMULATOR · STCW TRAINING

A complete engine room on a standard PC.

A live simulator of a large container vessel's machinery space, built around a 6S80ME-C9.2 electronically controlled two-stroke main engine, for operational and management level engineer training.



Engine control room manoeuvring console: telegraph, speed handle, control location and safety system, live at sea.

1 + 20
instructor and trainee stations

18
assessed exercises with briefing and debrief sheets

80
faults the instructor can inject or schedule

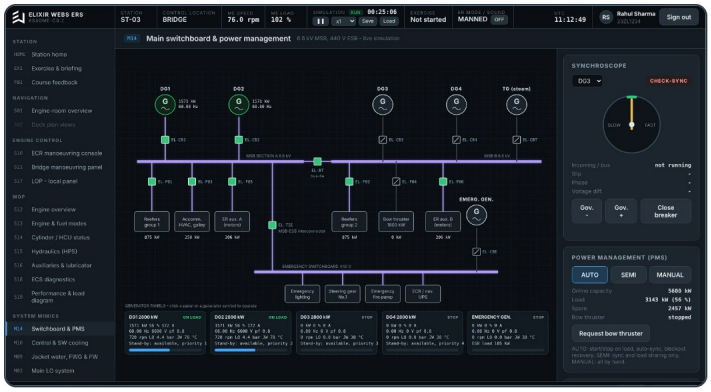
35+
live system mimics, consoles and MOP screens

COURSE CONTENT MAPPED TO

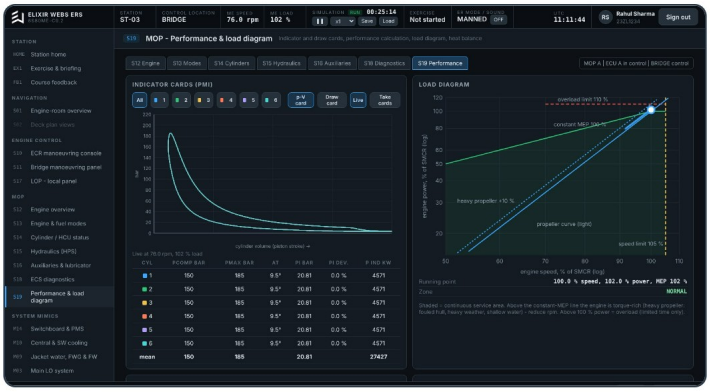
- STCW Table A-III/1 & A-III/2
- IMO Model Course 2.07
- DG Shipping TEAP Part B – ERS course

No special hardware. Runs on standard PCs and laptops, so one laptop is enough for a live demonstration.

Trainees run the whole plant



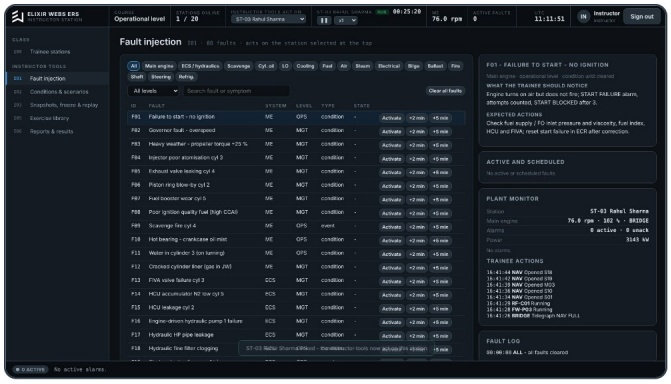
Main switchboard and PMS: four diesel generators, turbo generator, synchroscope, blackout and recovery.



Performance: indicator cards per cylinder and the engine load diagram with the live running point.

- ECR, bridge and local control
- ME engine control system & HCU
- Fuel oil, change-over & purifiers
- Lube oil & cylinder oil
- Central, sea & jacket water
- Starting air & scavenge air
- Steam, boilers & turbo generator
- Bilge, OWS, ballast & fire
- Steering gear & refrigeration
- Alarm monitoring & event log
- UMS watch-call
- Engine-room sound

The instructor is in control



See every station – engine speed, faults, actions and the screen each trainee is on.

Inject faults now or on a timer, on one trainee or the whole class.

Load conditions – in port, manoeuvring, at sea, dead ship – and ready-made scenarios.

Freeze, rewind and replay from automatic snapshots for the debrief.

Message one trainee or the whole class.

Assessment you can show an auditor

- Automatic checks score what the trainee actually did, with times
- Instructor marks A–D on technical and behavioural skills
- Clear result: Competent or Not yet competent
- Printable evaluation and debrief sheets, stored results and course feedback

Simple to set up

- Runs on standard PCs and laptops, no special hardware
- Works offline: instructor and trainee screens side by side on one PC
- Original graphics and sounds, designed for teaching
- Networked multi-PC classroom planned for the next release

Book a live demonstration

Watch a blackout recovery exercise being run and assessed, live.

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