ELIXIR WEBS

VERSION 1.7

ADVANCED IGF SIMULATOR · STCW TRAINING

A complete dual-fuel ship on a standard PC.

A live simulator of an LNG- or LPG-fuelled ship's fuel system – bunkering, fuel tank, fuel gas supply and dual-fuel engines – for STCW advanced training for ships subject to the IGF Code.



Bunker station and manifold: LNG transfer in progress, with vapour return, metering, ship–shore link and ESD, live.

1 + 20
instructor and trainee stations

3
ship models: LNG and LPG, Type C and membrane tanks

28
faults the instructor can inject on any station

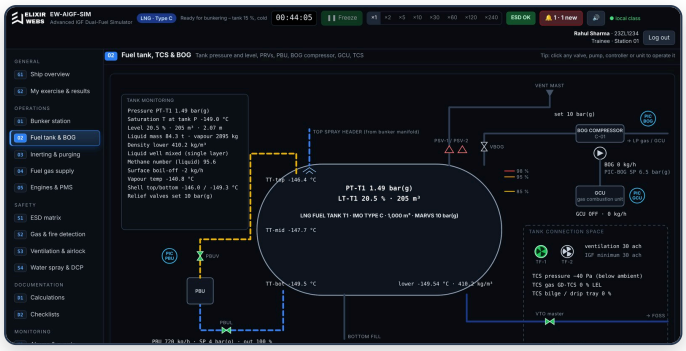
4
assessed exercises with briefing and debrief replay

COURSE CONTENT MAPPED TO

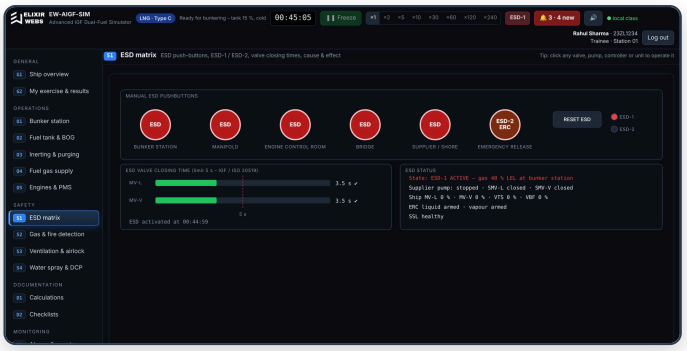
- STCW Table A-V/3-2
- IMO Model Courses 7.13 & 7.14
- IGF Code – MSC.391(95)

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

Trainees run the whole fuel system



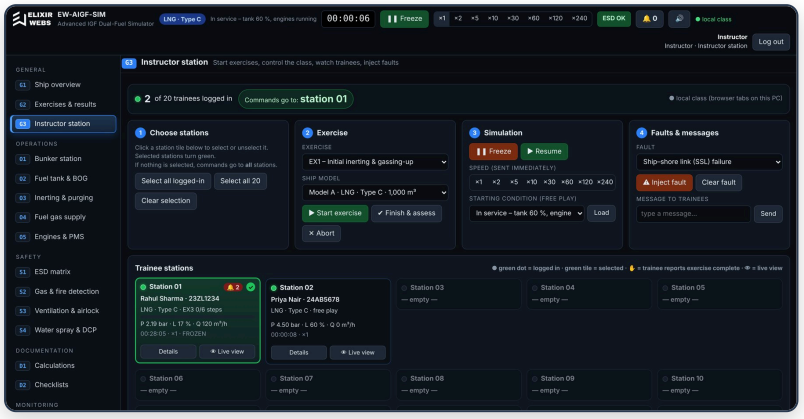
Fuel tank, TCS and BOG: pressure, level and stratification, PBU, BOG compressor and gas combustion unit.



ESD matrix: ESD-1 after a gas alarm at the bunker station, with valve closing times checked against the IGF Code.

- Bunker station, hoses & SSL
- Fuel gas supply & GVUs
- ESD-1 / ESD-2 & ERC
- Water curtain, deluge & DCP
- Inerting & cool-down
- Dual-fuel engines & PMS
- Gas & fire detection (% LEL)
- Filling limit & custody (BDN)
- Fuel tank, PRVs, PBU & BOG
- Gas combustion unit
- Ventilation & airlock
- Checklists, alarms & trends

The instructor is in control



See every station – who is logged in, the exercise, tank pressure, alarms and readiness.

Inject faults – a flange leak, roll-over or blackout – on one trainee or the whole class.

Starting conditions – ready for bunkering or in service, on three ship models.

Live view and replay – watch any trainee's screen, then replay it in the debrief.

Message one trainee or the whole class.

Assessment you can show an auditor

- Criteria checked live as the trainee works, with times
- Clear result: Competent or Not yet competent
- Printable report and debrief replay
- Every set point traced to its IGF Code source

Simple to set up

- Standard browser – nothing to install
- One PC offline, or a 1 + 20 network
- Fuel properties checked against NIST data
- Original graphics, designed for teaching

Book a live demonstration

Watch an LNG bunkering with an emergency shutdown being run and assessed, live.

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