DAMAGE CONTROL TRAINER

Redefine Sailor Skills in Safety
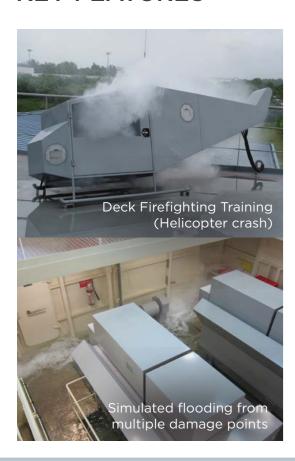
LEADING-EDGE
SIMULATION TRAINING

Training a well-coordinated and responsive damage control team requires care and precision in planning and a great deal of resources. Often engaging in live training exercises on board vessels at sea can prove costly and challenging.

The Damage Control Trainer (DCT) is a multi-storey land-based live virtual trainer consisting of a static and motion trainer designed to address these training challenges. Built as a replica of a ship, the structure includes crew stations, cabins and engine rooms, with a motion trainer that simulates the rocking motion of a ship in rough seas.

KEY FEATURES

Deck Firefighting Training
(Helicopter crash)

Simulated flooding from
multiple damage points
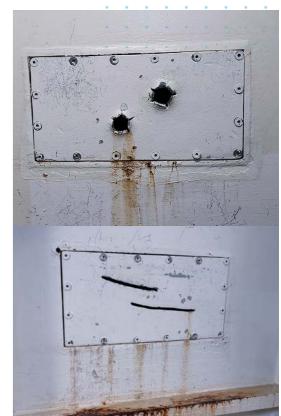
Scenario-based Training

Training in the DCT allows trainees to acquire
practical skills in handling shipboard damage
control and fire fighting equipment onsite
through simulating scenarios that cannot be
replicated on real ships.

Scenarios can range from flooding, shipboard
fire and confine space search and rescue (SAR)

" Over **60 damage
points designed** for
different training
scenarios. "

Configurable
Environmental Effects

Automated flooding, fire and sound effects
systems can be programmed or controlled by
the instructor. More than 60 damage points
are designed to generate unpredictability for
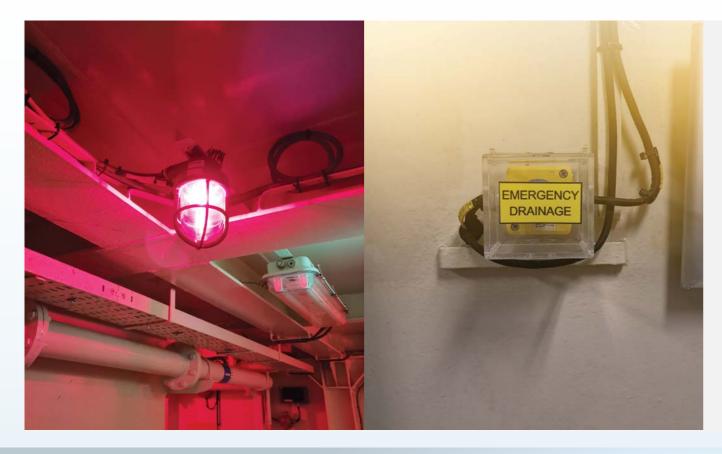training effectiveness.

Shore-based
Motion Trainer

Rolling Effect

- Consists a static (3 decks) and
  motion trainer (2 decks), 20
  compartments, with layout
  resembling a typical ship

- + / - 15 degrees rolling effect of
  the motion trainer simulates
  varying sea states for added
  realism during training

Simulation Effects

Ship Roll Effects

Below Water Line Flooding
(Deck, Hull and Hatch flood)

Above Water Line Flooding
(Pipe Burst, Door Flood)

Fire Simulation
(Compartment Heating)

Sound Effects
(Environmental and Bombing Sounds)

KEY FEATURES

Suite of Safety Systems

- Sensors and overflow mechanisms ensure water levels do not exceed 1.5m during flooding
- Fail-safe emergency drainage system ensures that water drains rapidly from the trainer
- Emergency lights and smoke extraction system will switch on during an emergency
- Motion system safety interlock ensures the motion trainer comes to a stop in the event of an opened door

Central Control Station (CCS)

The CCS provides real-time monitoring and control capabilities for instructors to develop customised training exercises, as well as simulating scenarios and operational conditions. The Training Analysis Portal System (TAPS) facilitates the playback of training scenarios and generate statistical reports for analysis.

- **Pre-planned Scenarios**
- **Exercise Execution**
- **Full Control & Monitoring (Access to over 50 CCTV feeds and system statuses)**
- **Record & Playback for After Action Review (AAR)**

Benefits:

▶ Overcomes the traditional constraints of training space and resources

▶ Enhanced training effectiveness in a realistic, safe and controlled environment

▶ Complete training solution from individual to team and leadership training

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