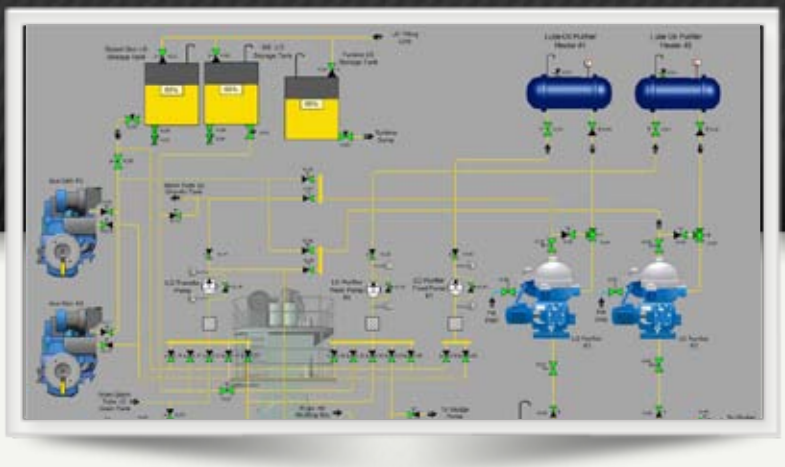
MARINE ENGINE ROOM SIMULATOR

D.P. Associates



Intuitive, Intelligent and Diverse Training Solutions

"Approximately 80% of maritime accidents are the result of human error."

To ensure optimum safety and efficiency at sea, extensive training for marine engineers is essential. The DPA Engine Room Simulator is designed to provide the training your engineers need, from basic to advanced level, and with special reference to the requirements of the STCW code and IMO Model Course 2.07.

Simulations include the propulsion, electrical and auxiliary systems for a range of modern vessels including those for Slow, Medium and High Speed Diesel Engines.

SAFETY AT SEA BEGINS WITH COMPREHENSIVE TRAINING

Approximately 80% of maritime accidents are the result of human error. Simulation training, in a controlled environment, gives marine engineers the opportunity to learn, experiment and interact with a variety of realistic situations that would be dangerous or expensive to recreate in real life. Training with our Marine Engine Room Simulator offers potential benefits:

- Increased Safety at Sea
- Experience in Operating Typical Marine Propulsion Plants
- Reduced Insurance Premiums
- Specialized Crew Training
- STCW Certification for Crew and Engineering Officers
- Assessment of Competence for Recruitment and Evaluation Purpose

A half scale model of a Medium Speed Marine Diesel Engine with interactive local controls and instrumentation.

An example of a Full Mission Engine Room Simulator Console.

MIMIC diagram of a Generator Fuel Oil Supply system.

MIMIC diagram of a Lube Oil Purification system.

MARINE ENGINE ROOM SIMULATOR

Military, Government, and Commercial Clients

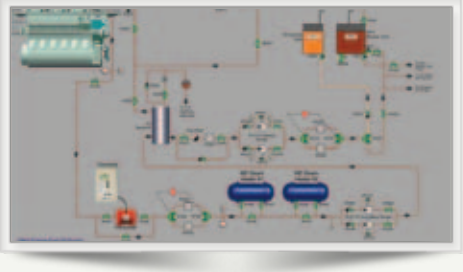
The software is based on an architecture that allows the simulator to be easily maintained and expanded to keep pace with developments in marine technology and maritime legislation. It can be configured as a stand-alone system on a single PC, network in a classroom or as a Full Mission Simulator complete with real instrumentation and controls.

KEY OBJECTIVES OF SIMULATOR TRAINING

- Location and function of main and emergency propulsion controls and machinery
- Preparation of machinery for operation under cold-ship conditions
- Preparation and operation of propulsion plant when in port and during maneuvering
- Operation of propulsion plant during full-away
- Troubleshooting and fault-finding
- Safe operation during both routine and emergency conditions
- Optimization of power plant for maximum safety and efficiency
- Team-building and leadership

DESIGNED TO RECREATE REAL-WORLD CONDITIONS

- Graphic displays are realistic,interactive and intuitive
- For training engineers with a wide range of abilities, from basic to advanced
- Scenario Editor's simple, intuitive interface lets users create and control time-based events from any component in the system
- Over 200 simulated fault conditions



MIMIC diagram of a Main Engine Fuel Oil Supply system.

Interactive virtual local controls and instrumentation for a Medium Speed Marine Engine.

A typical classroom arrangement.

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