

USCGC MACKINAW Acquisition

◆ Shipboard simulator to prepare crew for state-of-the art technology

Overview:

Replaced 50 year old Icebreaker

Cutting edge navigation and electronic systems

Features:

Front-End Analysis

Maritime Simulator Evaluation

Pre-design and design of intervention collaboration

Deployment of shipboard simulator-based training

Full-time instructional specialist

Realistic, scenario based learning

Immediate feedback

The USCGC MACKINAW is equipped with unique, state-of-the-art technologies. As a result, the crew has distinct challenges. Human Performance analysts worked closely with the ship's sponsor and acquisition program during construction of the vessel to determine the best methods to prepare crewmembers to navigate and handle the icebreaker.

The analysis found it was not practical to train the crew on live equipment due to safety hazards and severe consequences of error.

Bottom Line: Navigation and dynamic positioning simulators which provided a safe environment to practice maneuvering the ship and monitor and control the machinery plant in a realistic, risk free scenario based environment.



This product was designed and developed by the Coast Guard Performance Technology Center located in Yorktown, VA