



## **Interactive classroom course covering the advanced principles of Automation including the Principles of Safe Manning, STCW and the ISM Code**

Gain the skills you need to develop an understanding on how the various governing regulations, policy and International Standards interact with each other to ensure the safe navigation of seagoing vessel through safe and efficient marine engineering operations. Scheduled over 5 (8 hour) days, this course will instruct students how to better understand Coast Guard and International requirements for machinery space operations including reduced watch-keeping conditions and reduction in manning (periodically Unattended Machinery Space Operations (UMS)).

### **COURSE OBJECTIVES**

Using our proven instructor-led techniques, we will provide the student with the advanced competency needed to efficiently evaluate vessel machinery space automation installations and operations to determine “Plant Reliability” and minimum safe manning.

To ensure confidence in your new skills, we extend the training course with 90 days of free follow-up support on all class material.

### **PREREQUISITES**

- USCG Journeyman Marine Inspector with Machinery (MI) or Machinery Steam (MS) qualifications, or
- Class Surveyor with equivalent level of machinery space experience
- At least 4-years of experience conducting deep draft machinery space inspections or surveys for a Classification Society

### **TARGET AUDIENCE**

- Experienced Marine Inspectors, Class Surveyors or Licensed Chief Engineers seeking a better understanding of CG and International regulations regarding machinery space automation and manning

### **TOPICS COVERED**

- 46 CFR Parts 61 and 62
- IMO Principles of Safe Manning
- USCG Marine Safety Manual Vol III, Part B (including Chapter 6 – Automated Vessels)
- ISM Code and Company Responsibilities
- STCW
- ACP and MSP Programs
- Plant Reliability and Periodic Safety Test Procedures
- ABS Rules incorporated by reference
- Basic Instrumentation
- Degrees of automation and the road to UMS approval from the USCG
- Performance based class scenarios covering common issues discovered