



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

The course covers 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 covers how to better understand Coast Guard and International requirements for machinery space operations including reduced watch-keeping conditions (MAMS & PUMS) and reduction in vessel manning levels.

### **COURSE OBJECTIVES**

Using instructor-led techniques, we provide information to help achieve an advanced competency level 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**

- In training for Marine Inspector MI qual
- Class Surveyor with equivalent level of machinery space experience
- At least 1-year 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