



## 43 CONTROL ENGINEERING – MODULE 2 (CE-Mod 2)

### 2010 DATES:

- Jan 18 – 22
- Feb 15 – 19
- Mar 15 – 19
- Apr 19 – 23
- May 24 – 28
- Jun 21 – 25
- Jul 19 – 23
- Aug 16 – 20
- Sept 13 – 17
- Oct 11 – 15
- Nov 08 – 12
- Dec 06 – 10

### DURATION:

**1 Week**

(5 Days: 0830H – 1600H)

### COURSE

### CONTRIBUTION:

**USD 425.00**

(NSA Member)

**USD 473.00**

(Non-NSA Member)

*Inclusive of course materials/handout*

### ADVANCED INSTRUMENTATION & AUTOMATION – IMO 7.02

This course is designed for engineer officers and electrical officers involved in the operation, maintenance and repair of various control systems onboard. It deals with advanced principles and applications of instrumentation systems and modern control methods & equipment found onboard.

**COURSE AIMS:** This course aims to provide advanced engineering knowledge and skills in the field of *automatic control & controller tuning, electro-pneumatic, PLC, engine room alarms and safety systems*, thus develop ability and confidence in the safe and efficient operation and maintenance of automatic control and monitoring systems used on ships.

**COVERAGE / PROGRAM FOCUS:** This course essentially deals with the following subject and training areas:

- Controller tuning methods;
- Principles of electro-pneumatic control systems and circuits;
- Basic programming, wiring and troubleshooting of Programmable Logic Controller; and
- Engine room alarms and safety systems.

**METHOD:** Combination of classroom lecture and laboratory works utilizing fully automated pneumatic digital equipment i.e.: Signal Acquisition Unit (SAU), Electro-Pneumatic Training Board, PLC, Electronic & Pneumatic Controllers, and Different sensors. Hands-on exercises are tailored to take full advantage of the practical aspects of the work carried out on board.

**ENTRY REQUIREMENT / TARGET GROUP:** Entry to this course is open to all Engineer Officers and Electricians intending to serve onboard. Preferably, those intending to take the course should have taken Control Engineering Module 1 or any equivalent course based on control and instrumentation.

**COURSE CERTIFICATE:** A Certificate of Completion is given to each participant who satisfactorily fulfills the Course.

**Register**

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