

CONTROL ENGINEERING MODULE 1

42 CE M1

ELECTROTECHNICAL COURSE



The future of
world class
seafarers

INSTRUMENTATION & AUTOMATION – IMO 7.02

This course is designed for Engineer Officers and Electricians involved in the operation, maintenance and repair of various control systems found onboard. It covers essential aspects of marine instrumentation and automation systems both on typical and modern control methods & equipment.

COURSE AIMS & OBJECTIVES: This course aims to provide basic engineering knowledge and skills necessary to operate and maintain ship's control systems. In particular, those who shall successfully complete the course should be able to:

- describe the basic principles of measurements and its application onboard
- align and calibrate pneumatic and electronic instruments
- explain the principles of automatic control and practical application of control loops onboard
- troubleshoot typical process control system faults
- explain the principles of pneumatic control system and its application onboard

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

- Basic principles of instrumentation;
- Principles of automatic control;
- Practical marine control loops;
- Practical calibration methods and problem solving techniques in control system faults; and
- Pneumatic systems and control circuits.

METHOD: Combination of classroom lecture and laboratory work dealing with various control equipment and systems utilizing available information in manuals, diagrams, etc. for tests, faultfinding and calibration. 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 Officer as well as electrician intending to serve onboard.

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

DURATION:

2 Weeks

(10 Days: 0830H – 1600H)

2012 DATES:

1. Jan 02–06 / 09–13
2. Jan 30 –Feb 03 / 06–10
3. Feb 27–Mar 02 / 05–09
4. May 07–11 / 14–18
5. July 09–13 / 16–20
6. Aug 06–10 / 13–17
7. Nov 05–09 / 12–16
8. Dec 03–07 / 10–14

COURSE

CONTRIBUTION:

USD 709.00

(NSA Member)

USD 788.00

(Non-NSA Member)

*Inclusive of course
materials/handout*



Register

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