



## Nace Coating Inspector Program Level 2 (Marine)

### qualification of the coating inspectors

Through the adoption of IMO Resolution MSC.215(82) and IACS Procedural Requirement No. 34, Performance Standards for Protective Coatings (PSPC) have been introduced in the marine industry.

Inter alia the PSPC contains requirements for the qualification and the certification of the coating inspectors: the NACE Coating Inspector Program (CIP) Level 2 certificate is specified by IMO Resolution as recognized by the Administration for the fulfillment of said requirements.

Knowing that the inspector engaged in the shipbuilding field requires also specialized knowledge of IMO and IACS regulations on coating, NACE has further developed its traditional CIP Level 2 to provide up-to-date information on marine coatings application and inspection.

The CIP Level 2 (Marine) is available for training and certification of staff such as Inspectors, Supervisors, Surveyors and Advisors employed respectively by shipyards and their subcontractors, ship-owners, classification societies and coating suppliers and engaged in the survey activities foreseen by the PSPC.

Wishing to support its Clients in the acquisition of the technical skills for the management of the PSPC requirements, RINA has become a Corporate Member of NACE and is now willing to offer the CIP Level 2 (Marine) as NACE official licensee.

#### Prerequisites

The prerequisites for attending this course are:

- Successful completion of NACE CIP Level 1 Basic course
- or
- Three years documented experience in marine coatings inspection in the last 5 years

**NACE Certified Coating Inspectors are in compliance with IMO Resolution MSC.215(82) and IACS PR 34**



## Objectives

#### *This course is designed to:*

- Describe the theory of the corrosion process at an intermediate level.
- Provide marine personnel with thorough knowledge of surface preparation and the associated quality control.
- Provide marine personnel with intermediate knowledge of protective coatings, their uses on vessels, their application, and associated quality control.
- Review the salient safety issues associated with performing inspection in the marine industry.
- Review the equipment and processes involved with inspection equipment, both non-destructive and destructive.
- Provide marine personnel with knowledge of the IMO PSPC requirements for ballast tanks.

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## Examinations

During the course, students will take short written quizzes, all closed book, to reinforce the information presented in class.

At the end of the course, there will be a written final examination. Passing the examinations requires a minimum score of 70%.

## Certification

After successful completion of the course program and having passed the final examinations, the participants will be awarded of the **NACE CIP Level 2 certificate**.

The certified coating inspectors are allowed to carry out the inspections required by the **IMO PSPC**.

The certificate is valid for a period of three years from the date of issue/signing, after which it must be renewed.

## Course programme

*The course will be presented over a period of 6 days, followed by a final examination on the sixth day. The approximate course is as follows:*

### DAY 1

- Marine Corrosion
- The Marine Industry
- Designing & Fabricating for Corrosion Control-Marine

### DAY 2

- Marine Coatings
- Antifouling
- Shipyard Facilities & Processes
- Specifications & Role of Inspector

### DAY 3

- Environmental Control & Testing
- Surface Preparation
- Destructive Test Instruments
- Practice

### DAY 4

- Specialty Coatings Application
- Quality Control Documentation
- Coatings Defects
- Safety & Environmental Concerns
- Intro to In-Service Inspections
- Test Instrument Review

### DAY 5

- Linings & Special Coatings
- Concrete Coatings & Inspection
- Ships Maintenance Coatings Operations
- Pipeline Coatings
- Specialized Testing

### DAY 6

- Final Written Exam
- Final Practical Exam

### HANDS-ON PRACTICAL LABS AND CASE STUDIES

*There will be several hands-on practical labs where students will have a chance to get the feel of the different tools and techniques of the inspection equipment. The Case Studies will address actual problems encountered in the marine coatings industry. Students will work as teams to explore these situations.*

### RINA: 150 years of service

RINA is one of the oldest classification societies and certification companies in the world. Established in Genoa in 1861 to serve the marine industry, today it spans the globe as a multinational and multi-faceted company, sharing its knowledge and experience through a wide range of services which help industries and the community to improve their businesses and quality of life. RINA's services cover the environment, energy, transportation, logistics, safety, quality and social responsibility.

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