

About The Course

This course provides an introduction to some of the most important issues that arise in everyday work related to the repair and maintenance of ocean-going ships. Its purpose is to fill the gap between academic studies and the reality of practical issues. The most important types of damages that arise are introduced and are discussed with reference to bulk carriers and oil tankers. The different types of surveys carried out are also discussed as well as the types of repairs necessary in each case. Maintenance planning and the use of software for data management are also discussed.

Who should attend?

All personnel involved in the repair, maintenance and classification of ocean-going merchant ships, including shipyard project managers, marine superintendents and classification society surveyors. It will also interest engineer embarking on a career in ship surveying and students of naval architecture and related disciplines, with an interest in ship operations.

COST

The registration fee of the workshop will be £695 + VAT (UK ONLY) which includes course notes.

Payment

Payments can be made by cheque (made payable to ASRANet Ltd.), cash or bank transfer. Please enquire for details.

Contact Us

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Inspection repair & maintenance of ship structures ONLINE

6th -7th May 2024



(A Maritime Company for Courses, Conferences,
and Research)

PROGRAMME (All timings are in BST (GMT +1))

Monday 6TH May 2024

09:00 – 10:30 **Lecture 1:** Corrosion & fatigue of ship structures

Dr. Piero Caridis

10:30 – 11:00 *Break*

11:00 – 12:30 **Lecture 2:** Buckling & Fracture in ship structures

Dr. Piero Caridis

12:30 – 13:00 *Break*

13:00 – 14:30 **Lecture 3:** Damages to hull structures of bulk carriers & Crude Oil carriers

Dr. Piero Caridis

14:30 – 15:00 *Break*

15:00 – 16:30 **Lecture 4:** Surveys & Inspection of the hull structures

Dr. Piero Caridis

Tuesday 7th May 2024

09:00 – 10:30 **Lecture 5:** Surveys & maintenance of bulk carriers and oil tankers

10:30 – 11:00 *Break*

11:00 – 12:30 **Lecture 6:** Maintenance planning on ship structures

Dr. Piero Caridis

12:30 – 13:00 *Break*

13:00 – 14:30 **Lecture 7:** Condition Evaluation & repair planning using data base approach.

Dr. Piero Caridis



Dr Piero Caridis B.Sc. M.Sc. Ph.D.

Dr Caridis received his education in Greece and attended the universities of Glasgow and London (UCL) where he studied naval architecture at an undergraduate and a postgraduate level. After his studies and following completion of his military service he was employed as a marine superintendent in a shipping company in Piraeus, Greece. He was subsequently employed by Glasgow University and carried out research which led to his PhD degree in nonlinear structural mechanics. Dr Caridis then returned to Greece and joined the School of Naval Architecture and Marine Engineering of the National Technical University of Athens where he taught courses in ship strength and inspection, repair and maintenance of ship structures for thirty years. His research interests included nonlinear behaviour of ship structures, marine accident

analysis, ship repair and maintenance and the history of ship structural design and ship construction. He has been a member of the International Ship and Offshore Structures Congress (ISSC) committees since 1991 and is currently a member of Committee IV.1 Design Principles and Criteria.

Dr Caridis retired from NTUA in 2016 following which he taught a number of courses at the University of Strathclyde in Glasgow, Scotland (ship structures, shipping economics and maritime business-related courses) during the period 2017- 19.

Dr Caridis has authored two texts on the mathematical theory of ship structures (in Greek) and one text dealing with inspection repair and maintenance of ship structures (in both English and Greek). Details of these texts are given below. He is currently working on developing a series of texts dealing with ship structures.

1. *Inspection, Repair and Maintenance of Ship Structures*. Second Edition 2009, Witherbys Seamanship International, Edinburgh 326 p.
2. *Global Strength of Ships*. Marine Structures Series (2022). Distributed by Lulu.
(<https://tinyurl.com/y4efrlwd>) 708 p.

