

# NON-DESTRUCTIVE EXAMINATION (NDE) IN SHIPBUILDING

## COURSE OBJECTIVES

By the end of the program, the participants will become aware of major NDE practices adopted in ship construction. They would be able to appreciate the suitability of the type of NDE method appropriate for different jobs and recognise various results and corresponding defects.

## ABOUT THE COURSE

The course will be delivered in the classroom with a display of instruments. Area of application of different NDE techniques and interpretation of the results will be discussed.

## PARTICIPANTS

Young engineers and QA/QC inspectors and foremen from shipyards; Class surveyors, owner's representatives, WOT & CGOT Inspectors & Overseers from Navy and Coastguard, Welding contractor, etc.

## DURATION

Two days

## PRE-TRAINING REQUISITES

Shipbuilding background with knowledge of welding

## KEY TOPICS

- Standard NDE Processes and qualifications needed for the operator, reviewer, etc.
- Four major NDE techniques – namely, RT, UT, DPT & MPT, which are used in ship construction inspection.
- Advantages of each of these and examples of areas or jobs where each of these techniques can be used.
- Calibration methods and result acceptance criteria.
- Safety precautions associated with these NDEs
- Acceptance criteria of the indications observed.
- Practical demonstration of UT, DPT, MPT and reviewing of radiographic films