

# WELDING PROCESSES & CONTROL OF DISTORTION IN SHIPBUILDING

## COURSE OBJECTIVES

By the end of the program, the participants will become aware of major welding processes adopted in ship construction and know about measures to control and prevent weld defects and distortions of the ship structures during construction.

## ABOUT THE COURSE

The course will be delivered in the classroom with video examples of different processes. Area of application of these processes, controls needed to avoid / reduce weld defects, etc., will be discussed. It would be an interactive session, sharing the experiences of the trainers as well as the trainees.

## PARTICIPANTS

Young engineers from shipyards, Class Surveyors, Owner's representatives, WOT & CGOT Inspectors & Overseers, Welding Supervisor, contractor, foreman, etc.

## DURATION

One day

## PRE-TRAINING REQUISITES

Shipbuilding background with an overall knowledge of the welding processes

## KEY TOPICS

- Different types of welding methods and processes deployed in ship construction.
- Impact of welding processes on quality of a good ship & its specification requirements
- Methods of control to be implemented stage-wise /continuously and party responsible for the same.
- Sequence of welding to prevent undue heat input and distortion
- Checking by visual and NDE methods
- Corrective and preventive actions for the distortions.
- Records to be maintained, release notes to be issued, etc.