

# WELDING PROCEDURE SPECIFICATION (WPS) FOR SHIPBUILDING

## COURSE OBJECTIVES

- On successful completion of the course, the participants will be able to:
- Prepare a Welding Procedure Specification
  - Plan and prepare for a welding procedure qualification test
  - Understand the process involved for welder qualification

## ABOUT THE COURSE

In industries such as fabrication of steel structures including fabrication of ship's hull, manufacture of boilers and pressure vessels, pipes, etc., where welding is a critical activity – international standards and industry practices call for qualified Welding Procedure Specification.

This course aims to enable the participants to develop WPS on their own and get it qualified. It will also explain the process involved in welder qualification by Class.

## PARTICIPANTS

Design engineers, Naval Architects, Production Managers, Project Managers, Quality Managers, QC/QA personnel, Welding Supervisors

## DURATION

Two days

## KEY TOPICS

- Welding processes (ISO 4063)
- Grouping of materials (ISO/TR 15608)
- Welding positions (ISO 9692)
- Choosing weld consumables
- Calculation of pre-heat and inter-pass temperatures
- Calculation of heat input
- Non-destructive tests of weld samples
- Drafting of WPS (ISO 15609)
- Qualifying WPS (ISO 15614)