

SPECIAL SHORT TERM PROGRAMMES (SSTC)

Welding of CSEF(CrMo) Steels	25.09.2017 – 27.09.2017
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About the course: These courses are aimed at providing basic information about Resistance welding processes, welding of CSEF (CrMo) Steels and Welding of Aluminium and its Alloys. The theoretical lecture covered will be supplemented with adequate practical demonstration at WRI. This course will be useful for the personnel from all fabrication industries including automobile, power plant and ship building.

Eligibility: Candidates should possess a degree in any branch of engineering or equivalent (or) diploma in engineering with minimum 2 years of industrial experience related to fabrication / quality control.

Last date for Registration: One week prior to start of the course, subject to availability

Course contents:

- Introduction & Physical metallurgy of Cr-Mo steels
- Selection of welding processes & consumables for Cr-Mo steels
- Welding metallurgy of Cr-Mo steels – similar & dissimilar joint configurations
- Fabrication issues; Issues encountered during fabrication & Cold Bending of T91 & T23 grades in shop fabrication, Code Case requirements
- Significance of pre-heating, post heating & PWHT; Selection of suitable heat treatment techniques for Cr-Mo, T23 & T91 steels.
- Understanding WPS for shop & site welding applications and challenges in welder training
- Methods of controlling distortion in tubular components during fabrication
- NDT of Cr-Mo weldments – introduction, techniques and precautions
- Demonstration of flux shielded welding processes
- Demonstration of gas shielded processes including tubular welding applications
- Demonstration of local PWHT of tubular structures and panels
- Demonstration of NDT techniques for Cr-Mo steels