

SPECIAL SHORT TERM PROGRAMMES (SSTC)

Welding of Aluminium & its alloys	03.10.2017 – 05.10.2017
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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 to Aluminium alloys, physical metallurgy & applications of aluminium alloys
- Arc welding processes for welding aluminium alloys – state-of-the-art & emerging trends
- Welding metallurgy of aluminium alloys
- Developments in power sources and consumables for welding aluminium alloys
- Resistance welding of aluminium alloys – Introduction, process & advancements
- Solid state welding of aluminium alloys – state-of-the-art & emerging trends
- Advanced welding processes for welding aluminium & its alloys
- Welding practices and qualification as per AWS D1.2
- Nondestructive testing of aluminium weldments
- Practical demonstration of GTAW & GMAW processes
- Practical demonstration of resistance and solid state welding processes
- Demonstration of NDT techniques for testing aluminium weldments