

RADIOGRAPHIC TESTING LEVEL - I

DURATION - 14 DAYS (SUBJECT TO CONFIRMATION BY BARC)

COURSE : T 15 B

- Aim/Objective : a) The participants will know about different NDT methods, basic metallurgy, welding, Industrial Radiographic film and X-Ray/Gamma-Ray equipments.
- b) The Course will enable the participants to use radiographic equipments keeping in view the different safety requirements of installation, transport of radioactive materials & Radiation safety legislation.
- Course Contents : Various NDT techniques - Basic metallurgy - Processing & Welding defects - Industrial Radiographic films - Characteristics - Film density - Viewing of radiograph - Fog density - General knowledge of specification & procedures - Radiation units & production standards - Safety requirements of X-Ray & Gamma-Ray equipments - Radiographic installation - Radiation safety legislation - Transport of radio active material.
- Methodology : Theoretical and practical demonstration.
- Eligibility : 12 standard with Physics & Mathematics or Diploma in Engineering with 6 months experience in Industrial Radiography.
- Course Fee : Rs. 6,500/- per participant.
- Intake : 20
- Venue : NTH, Mumbai

RADIOGRAPHIC TESTING LEVEL - II

DURATION - 22 DAYS (SUBJECT TO CONFIRMATION BY BARC)

COURSE : T 16 B

- Aim/Objective : a) The participants will know NDT, metallurgy concerning casting, forgings & welding. Elementary Nuclear Physics etc. Industrial Radiographic film and X-Ray & Gamma-Ray equipments.
- b) The Course will enable the participants to use the radiographic equipments keeping in view the different safety requirements of installation, transport of radioactive materials and their Biological effects, genetic effects, Risk estimation.
- c) The trainee will be in a position to effect the management of radiation safety, educate the workers and interpret the radiographs on the basis of different codes and standards.
- Course Contents : Basic NDT, Elementary Nuclear Physics - Basic Metallurgy - Casting - Forgings - Welding - Radiation source and equipments - Photographic & recording - Viewing of radiographs - Density measurement - Interpretation of radiographs - Codes & Standards - Biological effects - Genetic effects - Risk estimation - Educational training of workers - Specific safety requirements - Transport of radioactive materials - Management of radiation safety.
- Methodology : Theoretical and practical.
- Eligibility : Diploma in Engineering/Degree in Science with Physics & Mathematics and minimum two years practical experience in radiography or Degree in Engineering, M. Sc. in Mathematics or Physics with one & half year experience in radiography or Personnel qualified as Certified Radiographers or RT level-I with 3 years experience in Radiography.
- Course Fee : Rs. 9,600/- per participant.
- Intake : 20
- Venue : NTH, Mumbai

MANUAL METAL ARC WELDING

DURATION - 5 DAYS

COURSE : T 17 B

Aim/Objective	: a) The participants will know about weld materials and testing of weldments. b) The Course will enable the participants to know in detail the different types of weld defects and safety requirements.
Course Contents	: Properties of weld materials : Testing of weldments - Advantages of welding process - Application of welding - Arc welding principle - Welding defects - Safety.
Methodology	: Theoretical and practical demonstration.
Eligibility	: Skilled & Semi-skilled Welders.
Course Fee	: Rs. 3,000/- per participant.
Intake	: 10
Venue	: NTH, Mumbai