



VISUAL TESTING - Level-II

Course Duration: 24 Hours (Level -1 (8 Hours) & Level II (16 hours))

Visual Inspection / Testing or visual examination of objects, parts, Materials or components is the oldest and reliable non-destructive testing method. The test method is applied to almost every product as a quality assurance tool. It is typically the first step in the examination process to inspect a variety of product forms including To provide a basic knowledge of Visual Inspection to enable a participant to carryout tests according to an established procedure under the supervision of a level II . The course is especially designed to provide a sound theoretical knowledge and practical skill for VT required for a Level II (2) technician castings, forgings, machined components and weldments.

Training Course Objective:

- A visual inspection is an essential and basic non-destructive inspection technique.
- As per SNT-TC 1A 2016 Edition is the Recommended Practice for NDT Level II Personnel
- Obvious flaws (such as folds, breaks, wear, corrosion, open cracks, etc.)
- Underlying hidden defects presenting an external surface irregularity can indicate a more serious fault
- Choice of the most appropriate NDT technique for more detailed examinations
- Determination of the limitations of the other NDT techniques chosen (access, surface condition, etc.)
- Identifying various weld discontinuities
- Understanding the relevant welding technology related to visual inspection
- Understanding the need for documentation in welding
- Familiarity with codes and standards related to inspection requirements
- Carrying out inspection of parent materials and consumables
- Perform visual inspection of welds, report and assess their compliance with specified acceptance criteria

Course Outline

- Light, Illumination and Eye
- Fundamentals of Imaging
- Optical and Mechanical Aids
- Processing Discontinuities
- Welding Methods
- Welding Joints and Symbols
- Welding Process and Control
- Welding Discontinuities
- Weld Inspection and Gauge
- Welding Codes
- Service Induced Discontinuities
- Dimensional Measurements
- Documentation of Visual

Training & Examination Entry Requirements: -

- Mandatory Training has to be undergone for Level 1 (8 Hrs) & Level II (16 Hrs) combined total of 24 hrs.
- Candidate seeking admission into the particular course method shall duly fill in an application form and submit his ID proof with two (02) passport size photographs.
- Candidate Educational Qualifications to be submitted (10th Std, S.S.C, Inter, Diploma in Eng. or B.E / B.Tech/ B.Sc.).
- Candidates shall submit his verifiable experience certificate from his present employer.
- Minimum Passing is 70% and Overall Grading Pass is 80%.
- Experience Minimum of 400 Hours in Total NDT Methods is required for Level 2 and a Minimum 210 Hours is required in VT Method.

Certification Scheme / Issued By:



Examination Module :

General Examination: 60 Minutes
40 Multi Choice Questions

Specific Examination: 30 Minutes
20 Multi Choice Questions

Practical Examination: 120 Minutes
01 Plate Visual Examination
01 Pipe Visual Examination
01 Macro Examination

Viva Examination: 15 Minutes
15 Questions

Career Enhancement:

After successful completion of Training & Examination candidates further seeking career in NDT can attend MPT, PT & Certified Welding Inspector (Level -II or Visual Welding Inspector (Level-1)

Validity of Certification:

- 5 years from the Date of Issue of Certification (renewal to be done by Re-examination or Continuous Satisfactory Performance only)