



**COURSE TITLE :** **RADIOGRAPHIC INTERPRETATION  
LEVEL-II (ASNT: SNT-TC-1A: 2011)**

**SPONSORING DEPARTMENT :** **NON DESTRUCTIVE TESTING (NDT) TRAINING CENTER**

**COURSE DESCRIPTION:**

Fundamentals: X-Rays formation & imaging. Operation & Testing. Specific application: welded joints. Interpretation and evaluation: film processing and interpretation. The trainee will be capable of making independent decisions after referring to the relevant codes and standards. Would be able to make judgment on selection between UT & RT methods.

**LEARNING OBJECTIVES:**

- Introduction, Basic Principles of Radiography.
- Geometric Exposure Principles, Radiographic Screens, Radiographic Cassettes.
- Radiographs, H&D Curve, Film Speed and Class.
- Selection of Film, Radiographic Image Quality.
- Exposure Techniques, Darkroom Facilities, Techniques and Processing.
- Indications, Discontinuities and Defects.
- Manufacturing Processes and Associated Discontinuities.
- Radiographic Viewing, Application Technique.
- Evaluation of Weldments.
- Interpreting results based on ASTM / ASME standards and specifications.
- Interpret the Company Procedure to perform acceptance/rejection.

**COURSE OUTLINE:**

- Evaluation & Interpretation of many numbers of films.
- Review & Discussions.
- Mock Up Tests, Home Works, and Examinations.
- Test will be conducted in 3 methods:
  1. General
  2. Specific
  3. Practical
- The candidate successfully completes the course if he gets a minimum score of 70% in each test (General, Specific and Practical) and a minimum of 80% for the average of 3 tests.

**WHO SHOULD ATTEND THIS COURSE:**

- Should be High School graduate of science branch (minimum recommended level of education).
- Should have a minimum experience of 220 hours in method and practical review of minimum 1000 radiographs.
- Certificates: Near Vision acuity (Jaeger Number 2 or Ortho-Rater 8), and Color Contrast Differentiation has to be submitted at the time of registration.

**METHODOLOGY (THEORY/LAB. OR BOTH):**

Theory and Lab.

**MEDIUM OF INSTRUCTION:**

English (course materials and visual aid packages are in English).

**COURSE DURATION: 2 weeks**

**HOURS PER DAY: 8 hours**

**TOTAL HOURS: 80 hours**