

Radiography Testing Level II

Level II - 40 hours

Training Course Outline

SCOPE

This course will prepare a candidate to perform Industrial Radiography

PREREQUISITE

Prerequisite for this class is RT Level I

COURSE OUTLINE

Module 10A: Film Density and Contrast

- Radiographic Film Selection

Module 10B: Improving Image Quality

- Radiographic Sensitivity
 - Wire and hole type IQI
- X-Ray energy Level and radiographic Contrast
- Film Graininess/Granularity

Module 11: Dark Room facilities

- Facilities and Equipment
- Film Loading
- Processing of Film – manual
- Automatic Film Processing
- Film Filing and Storage

Module 12: Viewing Radiographs

- Equipment
- Acceptable Densities
- Film Viewing Considerations
- Indications: Relevant and Non-Relevant

Module 13: Unsatisfactory Radiographs

Module 14: Weldments and Castings

- Welding Discontinuities
- Casting Discontinuities

Module 15: ASME V, Article 2

- Sensitivity, Geometrical unsharpness and density requirements
- ASME V Table T-276 IQI Selection

Module 16: ASTM E-94 Standard

Module 17: ISO 17636-12 Digital Radiography

- Radiography using digital detectors
- ISO Class A and Class B

Module 18A: Digital Radiography - Digital Detector Arrays

- Flat panel and Flex detectors
- ISO 17636-2

Module 18B: Digital Radiography - Computed Radiography

- Phosphor Imaging Plates
- Film vs CR
- Limitations of CR

PRACTICALS

Technique Selection

Penetrameter Requirements

Location marker and IQI Placement

Exposure and 2mR barricade Calculation

Simulation of RT Shot

Film Density Measurements

Identification of Defects

Interpretation

Accept/Reject

Note: NDT Companies can send Dark Room Trucks for additional Practicals

TRAINING PROGRAM EXAMINATIONS

- General
- Specific
- Practical

Candidates must score a minimum of 70 % in written tests, 80% in practicals and a minimum of 80% average for all the three tests.



Birring NDE Center

515 Tristar Drive

Webster, Texas 77598

832-533 8366

email: training@nde.com

www.nde.com

