

Radiography Testing Level II

Level II - 40 hours

Training Course Outline

SCOPE

This course will prepare a candidate to perform Industrial Radiography

COURSE OUTLINE

Module 10A: Film Density and Contrast

Module 10B: Improving Image Quality

- Radiographic Sensitivity
- Radiographic Contrast
- Definition
- Film Graininess
- Image Quality Indicators (IQI)

Module 11: Dark Room facilities

- Facilities and Equipment
- Film Loading
- Protection of radiographic
- 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 17636-2

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

Module 18A: Digital Radiography and RTR

- Flat panel detectors
- Real Time Radiography – RTR
- ISO 17636-2

Module 18B: Computed Radiography

- Phosphor 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



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