

Radiography Testing

Level II - 40 hours

Training Course Outline

SCOPE

This course will prepare a candidate to perform Industrial Radiography

COURSE OUTLINE

Module 10: Dark Room Facilities

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

Module 11: Radiographic Image Quality

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

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

Module 16: ASTM E-94 Standard

Module 17: Application of RT to Pressure Vessels

- ASME VIII

Module 18: COMPUTED RADIOGRAPHY

- Phosphor Plates
- Film vs CR
- Limitations of CR

Module 19: DIGITAL RADIOGRAPHY

- Flat panel detectors
- Image enhancement tools

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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