

Radiography Testing II Limited

Training Course Outline

SCOPE

This course will prepare a candidate for performing Radiography Film Interpretation

GENERAL COURSE OUTLINE

Types of Radiation

- X-Ray
- Gamma Ray

- Attenuation of Electromagnetic Radiation
- Inverse Square law
- Radiation detectors including Dosimeter, survey meter, film badge, TLD
- Radiographic Screens
- Lead Intensifying Screens
- Fluorescent Intensifying Screens
- Screen Film Contrast
- Screen Cleaniness and care
- Film Speed
- Selection of Film
- Geometrical unsharpness and definition
- Radiographic Sensitivity
- Radiographic Density
- Radiographic Contrast
- Film and Subject Contrast
- Image Quality Indicators (IQI)
- Exposure techniques including
 - Single Wall single image
 - Double wall single image
 - Double wall double image
 - Panoramic techniques

SPECIFIC

ASME Section V Article 2

ASTM E-94

PRACTICALS

- Viewing
- Radiographic Interpretation
- Illuminator Requirements
- Penetrameter Requirements
- Dark Adaptation

- Visual Acuity
- Film Identification
- Location Markers
- Film Density Measurements
- Densitometer and Step Wedge

Film Viewing

- Practice Film Viewing
- IQI
- 2-2T holes
- Wire Penetrameter
- Identification of Defects
- Interpretation
- Accept/Reject

Unsatisfactory Radiographs

- High or Low Density
- High or Low Contrast
- Poor Definition
- Fog
- Light Leakage
- Film Artifacts



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