

Radiography Testing – Film Interpretation

Level II Limited – 40 hours

Training Course Outline

SCOPE

This course will prepare a candidate for performing Radiography Film Interpretation

COURSE OUTLINE

Module 1: Certification of NDT Personnel

- SNT-TC-1A 2024

Module 2: Exposure Devices and Radiation Sources

- X-rays
- Gamma rays

Module 3: Scattering and Attenuation

- Types of Scattering
- Attenuation
- Inverse square law
- Half value Layer

Module 4: Types of Radiation

Module 5: Exposure Techniques

- SWESWV
- DWESWV
- DWEDWV

Module 6: Film Density and Contrast

- Understanding density
- contrast

Module 7: Viewing a Radiograph

Module 8: Film Interpretation

- Detection
- Interpretation
- Measurement

Module 9A: Digital Radiography

- ISO 17636-2
- Spatial image resolution and use of duplex IQI
- Signal to noise ratio
- Flat and Flexible panel detectors

Module 9B: Computed Radiography

- Phosphor Plates
- Film vs CR
- Limitations of CR

Module 10: ASTM E-94, E-747, E-1815 Standards

Module 11: ASME codes

- ASME VIII
- B31.1 and B31.3

Module 12: API 1104 for pipeline inspection

PRACTICALS

Film Viewing

Penetrameter Requirements

Location Markers

Film Density Measurements

Identification of Defects

Interpretation

Accept/Reject

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.



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