

Time of Flight Diffraction II (TOFD)

Training Course Outline- 40 hour course

SCOPE

This course prepares the candidate for Time of Flight Diffraction (TOFD) Inspections. TOFD is used for semi-automated and automated scanning of welds

PREREQUISITE

Ultrasonic Level II

TRAINING

Training Material is presented in Module followed by Quizzes
Training will include scanning and conducting practical exercises

MODULE 1: Introduction

- Principles of TOFD
- Diffraction Process

MODULE 2: TOFD Probes

- Probe Selection
- Probe frequency
- Probe dia

MODULE 3: Depth calibration

- Setting PCS
- Setting on calibration block
- Acquiring data
- Depth calibration

MODULE 4: Flaw Height Measurement

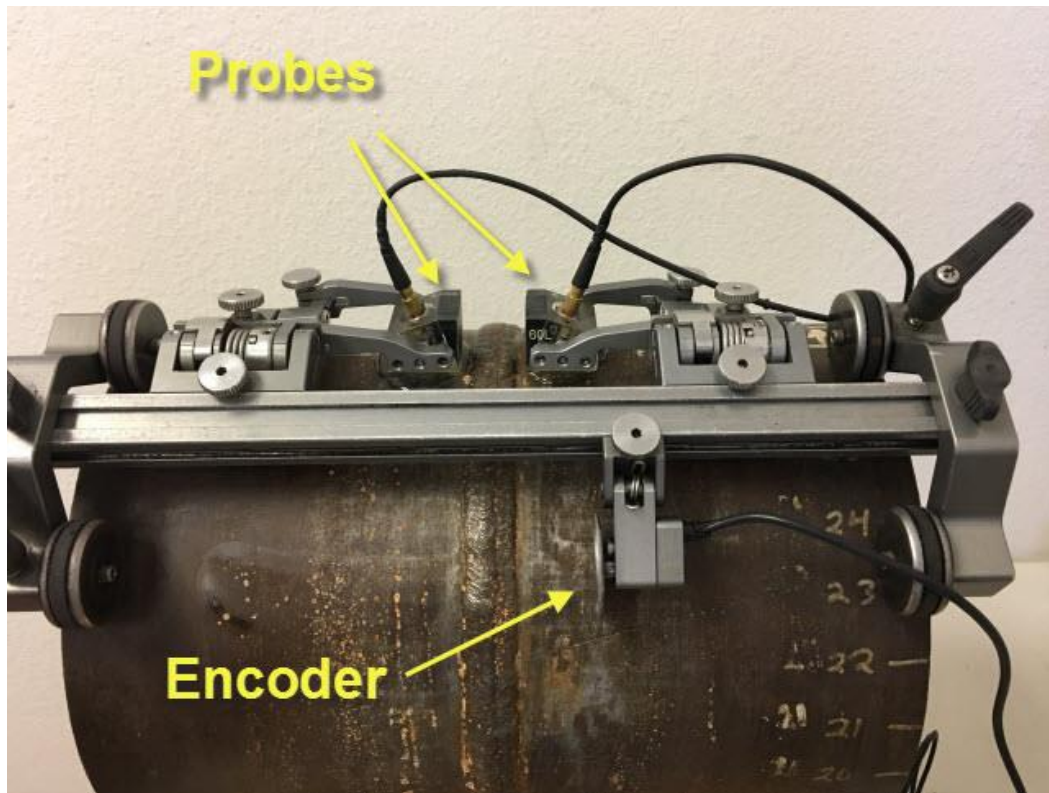
- Calibration
- Measurement
- Measurement on thicker samples

MODULE 5: Encoder Calibration and Location measurement

- Encoder calibration
- Location measurement
- Length measurement

MODULE 6: Flaw Length measurement

- Encoder calibration
- Location measurement
- Length measurement



Basic TOFD Scanning

MODULE 7: TOFD ISO 10863

- Probe Selection
- Selecting Beam intersection Point
- Setting scan sensitivity

MODULE 8: TOFD parameters

- Selection of TOFD parameters
- TOFD dead zone
- Probe
- PCS



Birring NDE Center

515 Tristar Drive
Webster, Texas 77598
832-533 8366
email: training@nde.com
www.nde.com/training