



KINECTRICS

SPECIALIZED TRAINING COURSES

Introduction to Ultrasonic Phased Array

Overview

This is an introductory overview of basic Ultrasonic Phased Array technology for Managers and Supervisors. Ultrasonic Phased Array is one of the emerging tools available that may improve the results of inspection tasks, and also help overcome problems encountered when testing complex parts, i.e. Materials or geometries. Non-destructive testing can be used to help prevent catastrophic equipment / plant failures. To be effective, these tests must be selected, applied, and interpreted with care, and be based on valid knowledge of failure mechanisms and their causes.

Course Outline

Module 1 - Introduction – Axiom NDT Corp.

- Expertise in Non Destructive Testing
- Expertise in Phased Array Inspection
- Kinectrics Engineering, Tools, Design and Manufacture support

Module 2 - Advantages of Ultrasonic Phased Array

- Methodology
- Image Results
- Data
- Safety
- ASME Code

Module 3 - Comparison to Conventional UT Methods

- Single Element Probe
- Phased Array Probe Configuration
- Phasing
- Linear Scan (Electronic Scan)

Module 4 - Capabilities of Ultrasonic Phased Array

- Linear Scan
- Sectorial Scan
- Beam Focusing
- Data Storage

Module 5 - Applications of Ultrasonic Phased Array

- Industries where Phased Array is used
- Examples of applications
- Use with Time of Flight Diffraction

Who Should Attend?

This course is designed for people who need to understand the basic principles of Phased Array—

- Managers and Supervisors of NDT groups
- Engineers who need an overview of to NDT methods

Key Benefits:

Gain an understanding of:

- Basic Phased Array technology
- Capabilities of PAUT

Price:

One day - \$750 + GST

Complimentary lunch & coffee breaks

Instructor:



Tom Thomson

Tom Thomson is CGSB level III qualified in the UT method. He is a voting member of CAN/CGSB committee for NDT. Before emigrating to Canada he was qualified to the British Standard (CSWIP) for NDT.

Register Now:

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