

OVERVIEW:

This programme provides detailed instructions on the inspection of ferritic welds/castings/wrought products by the use of phased array ultrasonic testing. Suitable only for holders of current, valid UT certification approved and accepted by PCN.

This phased array training course is PCN recognised and provides excellent preparation for the Level 2 examinations. It meets in full the training hour requirements as specified by the relevant PCN documentation. The course utilises the latest Technology Design, Olympus, Zetec and M2M phased array equipment.

COURSE CONTENT

- Principles of phased array probes
- Principles of inspection sensitivity
- Phased array instrumentation
- Scanning with phased array
- Calibration and checks
- Software for data collection
- Software familiarity
- Procedures for verification of flaw existence and position
- Use of software tools
- Data analysis

RESPONSIBILITIES:

An individual certified to Ultrasonic Phased Array Level 2 has demonstrated competence to perform NDT according to NDT procedures. Within the scope of the competence defined on the certificate, Level 2 personnel may be authorised by the employer to:

- Select the Ultrasonic Phased Array technique for the test method to be used
- Define the limitations of application of the testing method
- Translate Ultrasonic Phased Array codes, standards, specifications and procedures into Ultrasonic Phased Array instructions adapted to the actual working conditions
- Set up and verify Ultrasonic Phased Array equipment settings
- Perform and supervise Ultrasonic Phased Array tests
- Interpret and evaluate results according to applicable standards, codes, specifications or procedures
- Prepare written Ultrasonic Phased Array instructions
- Carry out and supervise all tasks at or below Level 2
- Provide guidance for personnel at or below Level 2
- Report the results of Ultrasonic Phased Array tests.

TRAINING AND EXPERIENCE:

PCN Certification is awarded once the student has demonstrated the required experience and training hours have been met and successful completion of the PCN examination has been achieved:

Ultrasonic Phased Array (PAUT):

Level 2 – 80 training hours and 3 months experience

Direct access to PCN Level 2 would be achieved by combining the experience and training hours of Level 1 and Level 2:

Direct access Level 2 – 120 training hours and 4 months experience