

TOTAL FOCUSING METHOD (TFM)



COURSE CONTENT

Total Focusing Method (TFM) is an examination technique involving the combination of classic Full Matrix Capture (FMC) data acquisition and TFM data reconstruction. The method has capabilities of improved resolution and depth of field over a larger region with less scattering of sound waves from material noise.

Our TFM course is designed to educate advanced inspectors in the methodologies and techniques to accurately identify and interpret defects in challenging inspections. The course syllabus has been written in accordance with ASME Section V and 2020 SNT-TC-1A.

COURSE OUTLINE

The course will cover the theoretical understanding of TFM in addition to hands-on testing using the latest technology equipment, such as the M2M GEKKO and the Omniscan X3.

- Overview of PAUT and FMC data collection
- Beam forming and resolution
- Amplitude fidelity, interface/dead zones and calibration
- Sensitivity correction
- FMC characteristics
- Plane Wave Imaging (PWI)
- Understanding the various modes used in TFM
- Evaluation and examination including display settings, flaw characterisation, flaw dimensioning and software tools
- Weld and corrosion examinations
- Advantages and disadvantages of the method
- Hands on practical testing on a wide range of samples



COST & DURATION

80 hours over 10 days (9 days training & 1 day examination covering both theory and practical).

UK: £3402 plus VAT

USA: \$4208

PRE REQUISITE

To be eligible for this course candidates must hold UT Level 2 Welds PCN or SNT certification. Ideally candidates will have an understanding of PAUT.

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COURSE DATES

12 - 23 July, 2021 Rotherham, UK

August 23 - September 3, 2021 Houston, TX

CONTACT US

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