

TIME OFF FLIGHT DIFFRACTION (TOFD) TECHNIQUE LEVEL 1 & LEVEL 2 (CODE: AS103)

COURSE DESCRIPTION

TOFD ultrasonic testing course provides the knowledge required to operate equipment and perform manual & encoded TOFD testing on welds. The course covers theoretical aspects on TOFD application, its advantages and limitations. It also includes requirements of code & standards. The course also covers in-depth practical aspects for application of TOFD on welds in Pipes & Plates using required accessories such as calibration blocks, validation samples, encoders, scanners etc. For this course we strongly recommend participants possess hands on experience in UT weld examination as Level II or Level III qualification. Our course structure is compiled based on the guidelines established in [PCN/GEN Appendix E4](#).

TOPICS

- TOFD theory and application
- System configuration
- Calibration and Validation
- Selection of parameters for TOFD technique.
- Creation of setup files
- Testing of specimen samples
- Verification of data
- Data acquisition
- Data analysis - Flaw characterization, location and sizing

COURSE DURATION

- 5 Days (40 hours) for qualification to PCN Level 1 scheme.
- 10 Days (80 hours) for PCN Level 2 Examination & ASNT SNT TC 1A Level 2.

Instructions include 40% class-room training with power point presentation, lecture, Q&A and 60% hands-on practical on A-Star engineered weld flaw samples.

WHO SHOULD ATTEND

Level II or III UT personals aspiring to acquire the proficiency in testing using encoded TOFD ultrasonic testing. Persons aspiring for certification to PCN Level 1, PCN Level 2, & employer based qualification and certification.

Important Note: Persons aspiring for PCN scheme shall possess respective PCN UT Level certification prior to sitting for PCN examination.

CERTIFICATION

Certification awarded for those who complete General, Specific and Practical examinations with an aggregate average of 80%.

COURSE SCHEDULE AND FEE STRUCTURE

<http://www.astar-training.com/wp-content/uploads/2016/12/COURSE-SCHEDULE-SINGAPORE-2017-2-1.pdf>