

Unique Features of JIC Conventional NDT Programs

➤ NDT Training Centre has unique status with the following features:

1. Inspection Equipments, Specimens and Calibration Blocks

i. INSPECTION EQUIPMENTS (along with complete sets of accessories, attachments, kits & references)

METHOD	EQUIPMENT DESCRIPTION	QUANTITY
ET	MS 5800 (Tube Inspection: ET, RFT, MFL, IRIS) & 7 Mock-up heat exchangers	01
	Nortec 500D Dual frequency Eddy Current Flaw Detectors	04
UT	Epoch XT Ultrasonic Flaw Detectors	18
	Epoch 1000i Ultrasonic Flaw Detectors	01
	Panametrics 36 DL Plus Thickness Gage	05
RT	X-Ray Tube System (Yxlon, 200KV), with darkroom film processing	01
	Dummy Projector Gamma Camera System	01
MPT	Portable Electro Magnetic Yoke	10
	Permanent Magnet	04
	Magnetizing Coils	02
	Prod Unit	01
VT	Borescope, 35 gauges, mirrors, lenses, calipers & kits	01



MS 5800

EPOCH XT

1000i

36DL PLUS

YXLON X-RAY

DELTA DUMMY
CAMERA

ELECTROMAGNETIC
YOKE

PERMANENT
MAGNET

COIL UNIT

PROD UNIT

ii. FLAWED SPECIMENS (More than 360 specimens)

Method	No. of Specimens for Training								No. of Specimens for Exam					
	Plate	Pipe	T-Joint	Y-Joint	Nods	Nozzle	Forging	Tubes	Plate	Pipe	T-Joint	Y-Joint	Nods	Tubes
PT	12	1	6	1	2	2	3	N/A	7	6	4	N/A	N/A	N/A
MPT	18	3	10	N/A	2	2	9	N/A	6	5	2	3	2	N/A
UT	21	8	12	1	4	8	13	N/A	2	2	2	N/A	N/A	N/A
RT	17	7	2	N/A	N/A	N/A	N/A	N/A	3	2	N/A	N/A	N/A	N/A
VT	38	5	15	N/A	N/A	N/A	N/A	N/A	14	2	7	1	N/A	N/A
ET	4	N/A	N/A	N/A	N/A	N/A	N/A	54	2	N/A	N/A	N/A	N/A	8
Sub. Total	110	24	45	2	8	12	25	54	34	17	15	4	2	8
Total	280								80					

iii. CALIBRATION BLOCKS & REFERENCES

CALIBRATION BLOCK DETAILS					
Item Description	No.	Item Description	No.	Item Description	No.
V1 BLOCK	14	CALIBRATION BLOCK ASME 2235 18" X 6" X 0.97" THICK	8	ASME BASIC CALIBRATION BLOCK 0-1"	5
V2 BLOCK	18	CALIBRATION BLOCK ASME 2235 18" X 6" X 1.97" THICK	8	ASME BASIC CALIBRATION BLOCK 1-2"	5
AWS RESOLUTION BLOCK	18	NAVSHIP BLOCK	13	ASME BASIC CALIBRATION BLOCK 2-4"	5
DAC BLOCK 17.5 mm	5	STEP WEDGE	5	ASSORTMENT OF REFERENCE STANDARDS FOR THICKNESS GAUGING	5
CERTIFIED CONDUCTIVITY REFERENCE STANDARDS	5	NEC WELD INSPECTION KIT	5	FLAWTECH REFERENCE RADIOGRAPH KIT	2



V1 BLOCK



V2 BLOCK



AWS RESOLUTION BLOCK



ASME BASIC CALIBRATION BLOCK



NAVSHIP BLOCK



STEP WEDGE

2. Training Modules

According to Recommended practice SNT-TC-1A: 2011 Edition

- Extensive use of ASNT Computer based CD-ROMs.
- ASNT Publications (training materials for MT, PT, UT, RT, ET Methods & Radiation Safety) & Assessments.



In-House Books produced by JIC-NDTTC:

Introduction to NDT	Radiography Testing
Basic Welding for Plant Inspector	Radiation Safety
Product Technology	Ultrasonic Testing
Penetrant Testing	Eddy Current Testing
Magnetic Particle Testing	Introduction to PAUT
Visual Testing	Introduction to TOFD
Heat Exchanger Tube Scanning	



3. Associated with:

- Olympus (International Business/Training/Seminar-Workshop Partner).
- A-Star Training & Consultancy (International Business/Training Partner).
- American Welding Society-AWS (International Agent).
- Eclipse Scientific, Inc. (International Business/Training Partner).
- American Society for Non Destructive Testing (ASNT Corporate Partner).

