



MAIRODI MANDIRI SEJAHTERA

TRAINING, CONSULTING & ENGINEERING SERVICES

Alamat: Gedung Dapenpos Lt.2, Jl. PH.H. Mustofa No.35 Bandung, Indonesia, 40124
Telp/Fax: +62-22- 721 5416 / 721 5668 Homepage: www.pelatihan-indonesia.id

Training Syllabus **NON DESTRUCTIVE TEST (NDT) LEVEL I** **Liquid Penetrant Testing (PT) & Magnetic Particle Testing (MT)**

TRAINING MATERIAL OUTLINE :

1. An overview of Non Destructive Testing (NDT)

- 1) The NDT approach
- 2) The need for testing
- 3) NDT methods
- 4) Methods and Standards selection
- 5) Detecting discontinuities
- 6) Surface
- 7) Subsurface
- 8) Contrast with Destructive Testing
- 9) An interpretive technology
- 10) Certification of technicians
- 11) Test variables
- 12) Improving test results
- 13) Standards for comparison
- 14) Automation

2. Liquid Penetrant Testing (PT)

- 1) Selecting Liquid Penetrant Testing (PT)
- 2) Advantages
- 3) Disadvantages and limitations
- 4) Basic Technique
- 5) Leak detection
- 6) Types of PT
- 7) Sensitivity
- 8) Sensitivity categories
- 9) Test Panels
- 10) Methods of removal
- 11) Developers
- 12) Equipment
- 13) Portable equipment
- 14) Stationary equipment
- 15) Small parts testing units
- 16) Automated testing systems
- 17) System concepts precaution
- 18) Personal requirements

3. Magnetic Particle Testing (MT)

- 1) Advantages



MAIRODI MANDIRI SEJAHTERA

TRAINING, CONSULTING & ENGINEERING SERVICES

Alamat: Gedung Dapenpos Lt.2, Jl. PH.H. Mustofa No.35 Bandung, Indonesia, 40124
Telp/Fax: +62-22- 721 5416 / 721 5668 Homepage: www.pelatihan-indonesia.id

- 2) Disadvantages
- 3) Basic MT process
- 4) Preparation of parts
- 5) Magnetization
- 6) Application of particles
- 7) Assessment of discontinuities
- 8) Demagnetization
- 9) Cleaning and surface protection
- 10) MT methods
- 11) Continuous
- 12) Residual
- 13) Properties of MT
- 14) Dry powder
- 15) Wet suspension
- 16) Comparison of wet and dry
- 17) Methods
- 18) Advantages of the dry method
- 19) Advantages of the wet method
- 20) Methods of magnetization
- 21) Longitudinal magnetization
- 22) Induced current magnetization
- 23) Circular magnetization
- 24) Equipment
- 25) Magnetizing equipment
- 26) Coils and insulated conductors
- 27) Yokes
- 28) Prods and clamps
- 29) Bench testing
- 30) Magnetic field indicators
- 31) Interpretation of indications
- 32) Spurious indications
- 33) Discontinuity indications
- 34) Meter readings and current flow
- 35) Personnel requirements
- 36) Other electromagnetic approaches

PERSYARATAN :

1. Minimum Pendidikan Sarjana Muda Teknik atau SMK Mesin/Listrik/IPA
2. Sehat jasmani & rohani

INSTRUCTOR : Y. Sinung Nugroho, Dipl.-Ing., MT. and Team

VENUE : Kagum Group Hotel Bandung (Golden Flower, Banana Inn, Serela, Gino Feruci), Amaroossa Hotel, Noor Hotel, Grand Setiabudi Hotel, dll



MAIRODI MANDIRI SEJAHTERA

TRAINING, CONSULTING & ENGINEERING SERVICES

Alamat: Gedung Dapenpos Lt.2, Jl. PH.H. Mustofa No.35 Bandung, Indonesia, 40124
Telp/Fax: +62-22- 721 5416 / 721 5668 Homepage: www.pelatihan-indonesia.id

TRAINING DURATION : 6 days

TRAINING TIME:

Januari 2024	Februari 2024	Maret 2024	April 2024
8 - 13 Januari 2024	5 - 10 Februari 2024	4 - 9 Maret 2024	1 - 6 April 2024
15 - 20 Januari 2024	12 - 17 Februari 2024	11 - 16 Maret 2024	22 - 27 April 2024
22 - 27 Januari 2024	19 - 24 Februari 2024	18 - 23 Maret 2024	29 April – 4 Mei 2024
29 Jan – 3 Feb 2024	26 Feb – 2 Maret 2024	25 - 30 Maret 2024	
Mei 2024	Juni 2024	Juli 2024	Agustus 2024
6 - 11 Mei 2024	3 - 8 Juni 2024	1 - 6 Juli 2024	5 - 10 Agustus 2024
13 - 18 Mei 2024	10 - 15 Juni 2024	8 - 13 Juli 2024	19 - 24 Agustus 2024
20 - 25 Mei 2024	24 - 29 Juni 2024	15 - 20 Juli 2024	26 - 31 Agustus 2024
27 Mei – 1 Juni 2024		22 - 27 Juli 2024	
		29 Juli – 3 Agus 2024	
September 2024	Oktober 2024	November 2024	Desember 2024
2 - 7 September 2024	30 Sept - 5 Okt 2024	4 - 9 November 2024	2 - 7 Desember 2024
9 - 14 September 2024	7 - 12 Oktober 2024	11 - 16 November 2024	9 - 14 Desember 2024
16 - 21 September 2024	14 - 19 Oktober 2024	18 - 23 November 2024	16 - 21 Desember 2024
23 - 28 September 2024	21 - 26 Oktober 2024	25 - 30 November 2024	
	28 Okt – 2 Nov 2024		

INVESTMENT PRICE/PERSON :

1. Rp. 11.500.000/person (full fare) or
2. Rp. 11.250.000/person (early bird, payment 1 week before training) or
3. Rp. 10.950.000/person (if there are 3 persons or more from the same company)

FACILITIES FOR PARTICIPANTS :

1. Training Module
2. Flash Disk contains training material
3. Certificate ASNT
4. Stationeries: NoteBook and Ballpoint
5. T-Shirt
6. Backpack
7. Training Photo
8. Training room with Full AC facilities and multimedia
9. Lunch and twice coffeebreak every day of training
10. Qualified Instructor