



TRAINING PROGRAM 2021



ASTRA SOLUTIONS CO., LTD.

TRAINING PROGRAM 2021

Application documents:

1. Application form (with company stamp)
2. CV (up-to-date)
3. Transcript
4. 1 Photo - 1"
5. Medical certificate (color blind test within 1 year)

Item	Training Course	Day (s)	Price/Person	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Magnetic Particle Testing Level 1&2	4	27,000	12-15		16-19		11-14		13-16		14-17		16-19	
2	Penetrant Testing Level 1&2	4	27,000		9-12		27-30		8-11		17-20		5-8		14-17
3	Visual Testing Level 1&2	4	29,000	26-29		23-26		18-21		20-23		21-24		23-26	
4	Ultrasonic Testing Level 1	6	32,000		15-22						2-9				
5	Ultrasonic Testing Level 2	6	46,000				19-26							1-8	
6	Eddy Current Testing Level 1	6	29,000			1-8					31 Aug-3 Sep				
7	Eddy Current Testing Level 2	6	36,000						14-21						13-20
8	Phased Array Ultrasonic Testing Level 2	11	93,000						28 Jun-12 Jul						
9	Rigging hardware & lifting operation (ASME B30.26, ASME B30.9)	2	12,000	18-19				20-21							

RENEWAL OF CERTIFICATIONS

For your NDT certification renewal, please contact us.

We will verify your credentials in accordance with ASNT SNT-TC-1A recommended practice for NDT personnel recertification.

Duration: 1 day (half day refresher training & half day examination)

Price: 9,900 THB (Excluding VAT 7%)

*All recertification exams must be taken no later than six weeks prior to the expiry date of the certificate.

For more information please contact

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ASTRA SOLUTIONS CO., LTD.

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MAGNETIC PARTICLE TESTING LEVEL 1&2

Certification: SNT-TC-1A

Duration: 4 Days Sessions: 12 –14 February 2021 16 –18 March 2021 11 –13 May 2021 13 –15 July 2021 14 –16 September 2021 16 –18 December 2021	Fees: 27,000 Baht/Person* Exam Dates: 15 February 2021 19 March 2021 14 May 2021 16 July 2021 17 September 2021 19 December 2021
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Suitable for: / Requested level:

- **NDT Operators**
- **Technicians**
- **Engineers**

Level 2 Responsibilities:

- **Setting-up of the equipment**
- **Inspection in accordance with written procedures, codes and standards**
- **Interpretation and evaluation of tested results**
- **Procedure preparation under the supervision of NDT Level 3 inspector**

Content:

- **Review on physics principles of magnetization**
- **Magnetization by electric current**
- **Equipment and accessories**
- **Applications**
- **Manufacturing process and associated discontinuities**
- **Inspection, interpretation**
- **Evaluation and recording of tested results**
- **Codes, standards, specifications and procedures**

❖ **PRACTICAL TRAINING**

❖ **EXAMINATIONS**

Notes:

- **Excluding VAT 7%**
- **Certification is handled by NDT level 3 according to SNT-TC-1A Standard**
- **Published prices and schedules are subjected to change without prior notice**

PENETRANT TESTING LEVEL 1&2

Certification: SNT-TC-1A

Duration: 4 Days Sessions: 09 –11 February 2021 27 –29 April 2021 08 –10 June 2021 17 –19 August 2021 05 –07 October 2021 14 –16 December 2021	Fees: 27,000 Baht/Person* Exam Dates: 12 February 2021 30 April 2021 11 June 2021 20 August 2021 08 October 2021 17 December 2021
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Suitable for: / Requested level:

- NDT Operators
- Technicians
- Engineers

Level 2 Responsibilities:

- Setting-up of the equipment
- Inspection in accordance with written procedures, codes and standards
- Interpretation and evaluation of tested results
- Procedure preparation under the supervision of NDT Level 3 inspector

Content:

- Review on physics principles
- Processing and control
- Various penetrant testing methods
- Surface cleaning and penetrant application
- Excess penetrant removal and development of indication
- Inspection and post clean
- Discontinuities and defects
- Interpretation, evaluation and recording of tested results
- Codes, standards, specifications and procedures

❖ **PRACTICAL TRAINING**

❖ **EXAMINATIONS**

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VISUAL TESTING LEVEL 1&2

Certification: SNT-TC-1A

Duration: 4 Days Sessions: 26 – 28 January 2021 23 – 25 March 2021 18 – 20 May 2021 20 – 22 July 2021 21 – 23 September 2021 23 – 25 November 2021	Fees: 29,000 Baht/Person* Exam Dates: 29 January 2021 26 March 2021 21 May 2021 23 July 2021 24 September 2021 26 November 2021
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Suitable for: / Requested level:

- **NDT Operators**
- **Technicians**
- **Engineers**

Level 2 Responsibilities:

- **Setting-up of the equipment**
- **Inspection in accordance with written procedures, codes and standards**
- **Interpretation and evaluation of tested results**
- **Procedure preparation under the supervision of NDT Level 3 inspector**

Content:

- **Review on fundamental of visual testing**
- **Equipment**
- **Remote visual inspection systems**
- **Welding processes**
- **Welding joint and symbols**
- **Discontinuities**
- **Codes, standards and specifications**

❖ **PRACTICAL TRAINING**

❖ **EXAMINATIONS**

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ULTRASONIC TESTING LEVEL 1

Certification: SNT-TC-1A

Duration: 6 Days Sessions: 15 – 21 February 2021 02 – 08 August 2021	Fees: 32,000 Baht/Person* Exam Dates: 22 February 2021 09 August 2021
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Suitable for: / Requested level:

- NDT Operators
- Technicians
- Engineers

Level 1 Responsibilities :

- Setting-up of the equipment
- Inspection in accordance with written procedures, codes and standards
- Interpretation and evaluation of tested results under the supervision of Level 2 or Level 3 inspector

Content:

- General knowledge of NDT methods and personnel qualification
- Physics principles of sound wave propagation
- Piezoelectric transducer
- Flaw detection principles
- Ultrasonic contact testing
- Calibration blocks
- Defect sizing
- Manufacturing discontinuities
- Codes and standards

❖ PRACTICAL TRAINING

❖ EXAMINATIONS

Notes:

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ULTRASONIC TESTING LEVEL 2

Certification: SNT-TC-1A

Duration: 6 Days Sessions: 19 – 25 April 2021 01 – 07 November 2021	Fees: 46,000 Baht/Person* Exam Dates: 26 April 2021 08 November 2021
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Suitable for: / Requested level:

- NDT Operators
- Technicians
- Engineers

Level 2 Responsibilities:

- Setting-up of the equipment
- Inspection in accordance with written procedures, codes and standards
- Interpretation and evaluation of tested results
- Procedure preparation under the supervision of NDT Level 3 inspector

Content:

- Review on physics principles of sound wave propagation
- Piezoelectric transducer
- Flaw detection principles
- Ultrasonic contact testing
- Immersion testing
- Calibration blocks
- Calibrating ultrasonic testing system
- Defect sizing
- Discontinuities and defects
- Codes, standards and specifications
- UT advanced techniques

❖ **PRACTICAL TRAINING**

❖ **EXAMINATIONS**

Notes:

- Excluding VAT 7%
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EDDY CURRENT TESTING LEVEL 1

Certification: SNT-TC-1A

Duration: 4 Days Sessions: 01 – 07 March 2021 31 August- 02 September 2021	Fees: 29,000 Baht/Person* Exam Dates: 08 March 2021 03 September 2021
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Suitable for: / Requested level:

- NDT Operators
- Technicians
- Engineers

Level 1 Responsibilities:

- Setting-up of the equipment
- Inspection in accordance with written procedures, codes and standards
- Interpretation and evaluation of tested results
- Interpretation and evaluation of tested results under the supervision of Level 2 or Level 3 inspector

Content:

- General knowledge of NDT methods and personnel qualification
- Introduction to Electromagnetic Testing Remote visual inspection systems
- Eddy Current Theory
- Eddy Current Instrumentation
- Readout Mechanisms
- Eddy Current Sensing Elements
- Flux Leakage Theory
- Coil Impedance
- Eddy Current Test Systems and Analysis
- Introduction to Electromagnetic Testing Technique

❖ PRACTICAL TRAINING

❖ EXAMINATIONS

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EDDY CURRENT TESTING LEVEL 2

Certification: SNT-TC-1A

Duration: 4 Days Sessions: 14 – 20 June 2021 13 – 19 December 2021	Fees: 36,000 Baht/Person* Exam Dates: 21 June 2021 20 December 2022
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Suitable for: / Requested level:

- NDT Operators
- Technicians
- Engineers

Level 2 Responsibilities:

- Setting-up of the equipment
- Inspection in accordance with written procedures, codes and standards
- Interpretation and evaluation of tested results
- Procedure Preparation under the supervision of NDT level 3 inspector

Content:

- Review Electronic Testing Theory
- Coupling
- Electromagnetic Testing Application
- Factors Affecting Flux Leakage Fields
- Selection of Magnetization Method
- Remote Field Testing
- Alternating Current Field Measurement
- Electromagnetic Testing Block
- Codes, Standards and Procedures

❖ PRACTICAL TRAINING

❖ EXAMINATIONS

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PHASED ARRAY ULTRASONIC TESTING LEVEL 2

Certification: SNT-TC-1A

Duration: 11 Days Sessions: 28 June-11 July 2021	Fees: 93,000 Baht/Person* Exam Dates: 12 July 2021
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Suitable for: / Requested level:

- NDT Operators
- Technicians
- Engineers

Level 2: Responsibilities

- Setting-up of the equipment
- Inspection in accordance with written procedures, codes and standards
- Interpretation and evaluation of tested results
- Procedure preparation under the supervision of NDT Level 3 inspector

Content:

- Phased Array Ultrasonic Fundamentals
- Phased Array Probes
- Beam Shaping and Beam Steering Capabilities
- Phased Array Scanning
- Selection of Parameters
- Data View and Display
- Instrument Features and Digitization Principles
- Data Analysis
- Equipment, Probe performance Check
- Code compliance for Phased Array

For PAUT Level 2 training:

- UT Level 1 and Level 2 training and experience required as a prerequisite
- Level 2 personnel holding a current Ultrasonic method certification are eligible for certification in the PAUT techniques

- ❖ PRACTICAL TRAINING
- ❖ EXAMINATIONS

Notes:

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RIGGING HARDWARE & LIFTING OPERATION

According to: ASME B30.26, B30.9

Duration: 2 Days Sessions: 18-19 January 2021 20-21 May 2021	Fees: 12,000 Baht/Person* Exam Dates: 19 January 2021 21 May 2021
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Suitable for: / Requested level:

- Lifting operator/Crane operator
- Technicians
- Engineers
- Rigger/Helper

Responsibilities:

- Identify the correct definition of working load limit
- Identify when “Rigging Hardware” requires inspection as per ASME B30.26
- Identify correct sling operating practices as per ASME B30.9
- Identify protection of sling requirements as per ASME B30.9
- Inspection frequency requirements for hardware and hooks used in normal service (ASME B30.26 and ASME B30.9)

Content:

- Rigging Fundamentals
- Selection, Use and Maintenance of lifting equipment
- Types and Materials
- Design Factor
- Rated Loads
- Proof Test
- Identification
- Effects of Environment
- Inspection, Repair and Removal
- Operating Practices

❖ PRACTICAL TRAINING

❖ EXAMINATIONS

Notes:

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