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# CORE NDT METHOD COURSES



# Ultrasonic Testing (UT)

## UT LEVEL 1 (RTO/UT 1)

### Description

This course is a combination of the Ultrasonic Testing Introduction course with appropriate Ultrasonic Testing theory and practical training. This course is PCN recognized and provides excellent preparation for Ultrasonic Testing Level 1 examinations. It meets in full the training hour requirements as specified by the relevant PCN documentation.

 **Duration**  
5 Days

 **Entry Requirements**  
SPM (Sijil Pelajaran Malaysia) or equivalent.

Participants will receive official certificates issued by NMUC and UCTATI.

BINDT certificates will be awarded upon successful completion of the examination.

### Course Contents

- ▶ Principles of Ultrasonics: Sound wave behavior, wave modes, and acoustic properties.
- ▶ UT Equipment: Familiarization with flaw detectors, transducers, and accessories.
- ▶ Calibration: Calibration techniques for different materials and applications.
- ▶ Inspection Techniques: Basic scanning techniques, flaw detection, and thickness measurement.
- ▶ Reporting: Documenting inspection results.

### Certification Validation by BINDT

Candidates must have at least 180 days of experience in Ultrasonic Testing to receive validation by BINDT.

### Special Note

Candidates attempting a PCN examination must meet the PCN/GEN requirements. If attempting an ASNT/EN4179/NAS410 examination the requirements of your company's written practice must be met. This course is not suitable for BGAS-CSWIP examination preparation.



Hybrid learning system available:  
Physical, Online, or a combination of both.

Most modules involve hands-on physical training.

## UT LEVEL 2 (RTO/UT 2)

### Description

This course is a combination of the UT Introduction course with appropriate Ultrasonic Testing theory and practical training. This course is PCN recognized and provides excellent preparation for Ultrasonic Testing Level 2 examinations. It meets in full the training hour requirements as specified by the relevant PCN documentation.

 **Duration**  
21 Days

 **Entry Requirements**  
Diploma/Bachelor's Degree in Welding Technology or a related engineering field is preferred or completion of UT Level 1 certification.

Participants will receive official certificates issued by NMUC and UCTATI.

BINDT certificates will be awarded upon successful completion of the examination.

### Course Contents

- ▶ Revision of basic technique
- ▶ Probe identification
- ▶ Test sensitivity
- ▶ Equipment checks
- ▶ Geometry / ultrasonic technique selection
- ▶ Defect sizing methods
- ▶ Practical exercise on a wide variety of weldments
- ▶ Defect response

### Certification Validation by BINDT

Candidates must have at least 180 days of experience in Ultrasonic Testing to receive validation by BINDT.

### Special Note

Candidates attempting a PCN examination must meet the PCN/GEN requirements. If attempting an ASNT/EN4179/NAS410 examination the requirements of your company's written practice must be met. This course is not suitable for BGAS-CSWIP examination preparation.

Training locations: **Johor & Terengganu**



# Radiographic Testing (RT)

## RT LEVEL 1 (SKM/RT I)

### Description

This programme involves RT Theory and Practical training and is PCN recognised providing excellent preparation for the Level 1 examinations; it meets in full the training hour requirements as specified by the relevant PCN documentation. Also suitable for employer based certification schemes such as SNT-TC-1A / EN4179 / NAS410.



**Duration**  
12 Days



### Entry Requirements

SPM (Sijil Pelajaran Malaysia) or equivalent.

Participants will receive official certificates issued by NMUC and UCTATI.

BINDT and JPK certificates will be awarded upon successful completion of the examination.

### Course Contents

- Principles of Radiation: Electromagnetic radiation, X-rays, and gamma rays.
- RT Equipment: X-ray generators, gamma ray sources, and radiation safety equipment.
- Radiation Safety: ALARA principles, radiation monitoring, and safety procedures.
- Exposure Techniques: Calculating exposure parameters and setting up radiographic inspections.
- Film Processing: Developing and interpreting radiographs.

### Certification Validation by BINDT

Candidates must have at least 120 working hours / experience in Radiographic Testing to receive validation by BINDT.

### Special Note

Candidates attempting a PCN examination must meet the PCN/GEN requirements. If attempting an ASNT/EN4179/NAS410 examination the requirements of your company's written practice must be met.



**Hybrid learning system available:**  
Physical, Online, or a combination of both.

Most modules involve hands-on physical training.

## RT LEVEL 2 (SKM/RT II)

### Description

This programme includes a combination of the RT Interpretation and RT Theory and Practice course. PCN recognised and provides excellent preparation for the Level 2 examinations; it meets in full the training hour requirements as specified by the relevant PCN documentation. This course is also suitable for employer based certification schemes such as SNT-TC-1A / EN4179 / NAS410.



**Duration**  
15 Days



### Entry Requirements

Diploma/Bachelor's Degree in Welding Technology or a related engineering field is preferred or completion of UT Level 1 certification.

Participants will receive official certificates issued by NMUC and UCTATI.

BINDT and JPK certificates will be awarded upon successful completion of the examination.

### Course Contents

- Advanced Radiographic Principles: Scattering, absorption, and image quality.
- Technique Optimization: Selecting appropriate RT techniques to maximize image quality and sensitivity.
- Film Interpretation: Identifying and evaluating various types of discontinuities on radiographs.
- Procedure Development: Creating RT procedures based on codes, standards, and specific applications.
- Codes and Standards: In-depth review of relevant codes and standards.

### Certification Validation by BINDT

Candidates must have at least 180 days of experience in Ultrasonic Testing to receive validation by BINDT.

### Special Note

Candidates must have at least 6 months experience in Radiographic Testing to receive validation by BINDT.



Training locations: **Johor & Terengganu**





# Radiographic Testing (RT)

## RT LEVEL 2 DIRECT ACCESS

### Description

This programme includes a combination of the RT Interpretation and RT Theory and Practice course. PCN recognised and provides excellent preparation for the Level 2 examinations; it meets in full the training hour requirements as specified by the relevant PCN documentation. This course is also suitable for employer-based certification schemes such as SNT-TC-1A / EN4179 / NAS410.



Duration  
**26 Days**



### Entry Requirements

Diploma/Bachelor's Degree in Welding Technology or a related engineering field is preferred or completion of RT Level 1 certification.

Participants will receive official certificates issued by NMUC and UCTATI.

BINDT certificates will be awarded upon successful completion of the examination.

### Course Contents

- 1 Advanced Radiographic Principles: Scattering, absorption, and image quality.
- 2 Technique Optimization: Selecting appropriate RT techniques to maximize image quality and sensitivity.
- 3 Film Interpretation: Identifying and evaluating various types of discontinuities on radiographs.
- 4 Procedure Development: Creating RT procedures based on codes, standards, and specific applications.
- 5 Codes and Standards: In-depth review of relevant codes and standards.

### Certification Validation by BINDT

Candidates must have at least 6 months experience in Radiographic Testing to receive validation by BINDT.

### Special Note

Candidates attempting a PCN examination must meet the PCN/GEN requirements. If attempting an ASNT/EN4179/NAS410 examination the requirements of your company's written practice must be met.



Hybrid learning system available: Physical, Online, or a combination of both.

Most modules involve hands-on physical training.

## PCN RADIOGRAPHIC INTERPRETATION (RTO/IR II)

### Description

Suitable for those who require an in-depth knowledge of the radiographic interpretation of welds. The course concentrates on the identification of weld defects, assessment of radiographic quality and sentencing to example specifications. All information necessary for candidates attempting PCN or ASNT radiographic interpreters examinations is issued.



Duration  
**11 Days**



### Entry Requirements

Diploma/Bachelor's Degree in Welding Technology or a related engineering field is preferred. Completion of RT Level 1 certification or equivalent documented training or candidates demonstrate a minimum of [X years] of practical experience in Radiographic Testing, including radiation safety procedures.

Participants will receive official certificates issued by NMUC and UCTATI.

BINDT certificates will be awarded upon successful completion of the examination.

### Course Contents

- Properties and production of X and gamma rays
- The formation of a latent image
- Radiographic film
- Development/processing

### Practical Exercise cover:

- Assessment and measurement of radiographic quality
- Image quality
- Radiographic techniques
- Weld technology
- Interpretation of radiographs
- Specifications
- Identification of weld types
- Identification of weld defects
- Sentencing to specifications

### Certification Validation by BINDT

Candidates must have at least 6 months experience in Radiographic Interpretation to receive validation by BINDT.

### Special Note

Candidates attempting a PCN examination must meet the PCN/GEN requirements. If attempting an ASNT/EN4179/NAS410 examination the requirements of your company's written practice must be met. This course is not suitable for BGAS-CSWIP examination preparation.



Training locations: **Johor & Terengganu**





# Eddy Current Testing (ET)

## ET LEVEL 1 (RTO/EC1)

### Description

This course provides detailed information on the inspection of welds utilising the Eddy Current Testing method, incorporating the latest equipment. This course is suitable for beginners and personnel with an existing NDT knowledge. This course is PCN approved and provides excellent preparation for the Level 1 examination as specified by the relevant PCN documentation.

 **Duration**  
5 Days

 **Entry Requirements**  
SPM (Sijil Pelajaran Malaysia) or equivalent.

Participants will receive official certificates issued by NMUC and UCTATI.

BINDT certificates will be awarded upon successful completion of the examination.

### Course Contents

- Principles of Electromagnetism: Electromagnetic induction, eddy current generation, and impedance.
- ET Equipment: Familiarization with eddy current instruments, probes, and standards.
- Calibration: Calibration techniques for different materials and applications.
- Inspection Techniques: Basic scanning techniques, flaw detection, and conductivity measurement.
- Reporting: Documenting inspection results.

### Certification Validation by BINDT

Candidates must have at least 180 days of experience in Ultrasonic Testing to receive validation by BINDT.

### Special Note

Candidates attempting a PCN examination must meet the PCN/GEN requirements. If attempting an ASNT/EN4179/NAS410 examination the requirements of your company's written practice must be met. This course is not suitable for BGAS-CSWIP examination preparation.



Hybrid learning system available: Physical, Online, or a combination of both.

Most modules involve hands-on physical training.

## ET LEVEL 2 (RTO/EC2-D)

### Description

This course is suitable for beginners and personnel with existing NDT knowledge. Students are able to qualify straight to Level 2, (candidates must complete both Level 1 and Level 2 training courses) or build on their existing Level 1 certification. This course is PCN approved and provides excellent preparation for the Level 2 examination as specified by the relevant PCN documentation.

 **Duration**  
12 Days

 **Entry Requirements**  
Diploma/Bachelor's Degree in Welding Technology or a related engineering field is preferred or completion of ET Level 1 certification.

Participants will receive official certificates issued by NMUC and UCTATI.

BINDT certificates will be awarded upon successful completion of the examination.

### Course Contents

- Advanced Eddy Current Principles: Skin effect, frequency selection, and probe design.
- Technique Selection: Selecting appropriate ET techniques for various materials, geometries, and flaw types.
- Procedure Development: Creating ET procedures based on codes, standards, and specific applications.
- Flaw Characterization: Sizing and evaluating flaws using advanced ET techniques.
- Codes and Standards: In-depth review of relevant codes and standards.

### Certification Validation by BINDT

Candidates must have at least 180 days of experience in Ultrasonic Testing to receive validation by BINDT.

### Special Note

Candidates attempting a PCN examination must meet the PCN/GEN requirements. If attempting an ASNT/EN4179/NAS410 examination the requirements of your company's written practice must be met. This course is not suitable for BGAS-CSWIP examination preparation.



Training locations: **Johor & Terengganu**



# Magnetic Particle Testing (ET)

1

## MT LEVEL 1 (RTO/STI)

### Description

Magnetic Particle Testing candidates will have the opportunity to use a large variety of equipment on welds, castings and wrought products on this theoretical and practical course. Suitable for beginners and personnel with existing NDT knowledge and PCN recognised, providing excellent preparation for Level 1 MPI examinations. It meets the training hour requirements as specified by the relevant PCN documentation.

**Duration**  
5 Days

**Entry Requirements**  
SPM (Sijil Pelajaran Malaysia) or equivalent.

- Participants will receive official certificates issued by NMUC and UCTATI.
- BINDT certificates will be awarded upon successful completion of the examination.

### Course Contents

- Principles of Magnetism (MT): Magnetic fields, magnetic properties of materials, and magnetization techniques.
- MT Equipment: Yokes, coils, penetrant applicators, developers, and UV lights.
- Inspection Techniques: Applying MT techniques to detect surface-breaking flaws.
- Reporting: Documenting inspection results.

### Certification Validation by BINDT

Candidates must have at least 60 days of experience in Magnetic Particle Testing to receive validation by BINDT.

### Special Note

Candidates attempting a PCN examination must meet the PCN/GEN requirements. If attempting an ASNT/EN4179/NAS410 examination the requirements of your company's written practice must be met. This course is not suitable for BGAS-CSWIP examination preparation.

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## MT LEVEL 2 (RTO/ST5)

### Description

Magnetic Particle Testing level 2 candidates will have the opportunity to use a large variety of equipment on welds, castings and wrought products on this theoretical and practical course. Suitable for beginners and personnel with existing NDT knowledge and PCN recognised, providing excellent preparation for Level 2 MPI examinations. It meets the training hour requirements as specified by the relevant PCN documentation.

**Duration**  
6 Days

**Entry Requirements**  
Diploma/Bachelor's Degree in Welding Technology or a related engineering field is preferred or completion of MT Level 1 certification.

- Participants will receive official certificates issued by NMUC and UCTATI.
- BINDT certificates will be awarded upon successful completion of the examination.

### Course Contents

- Principle of magnetism
- Background requirements for test procedure
- MPI equipment
- Technique used
- Safety
- Reporting procedure
- Guidelines of selecting system for use
- Safety
- Reporting procedure
- Examination requirement
- Relevant BS and EN standards coverage

### Certification Validation by BINDT

Candidates must have at least 60 days of experience in Magnetic Particle Testing to receive validation by BINDT.

### Special Note

Candidates attempting a PCN examination must meet the PCN/GEN requirements. If attempting an ASNT/EN4179/NAS410 examination the requirements of your company's written practice must be met. This course is not suitable for BGAS-CSWIP examination preparation.

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## MAGNETIC PARTICLE EXAMINATION REVISION

### Description

Short term revision course intended to supplement the Magnetic particle testing pre-approval course.

**Duration**  
2 Days

**Entry Requirements**  
Previous attendance of a MT Level / MT Level 2 course is strongly recommended.

- Participants will receive official certificates issued by NMUC and UCTATI.
- BINDT certificates will be awarded upon successful completion of the examination.

### Course Contents

- Relevant examination criteria
- Practical exercise on equipment similar to that encountered in examinations
- A theory package oriented towards examination requirements
- Mock examination

### Certification Validation by BINDT

Candidates must have at least 60 days of experience in Magnetic Particle Testing to receive validation by BINDT.



- Hybrid learning system available: Physical, Online, or a combination of both.
- Most modules involve hands-on physical training.

Training locations: **Johor & Terengganu**



# Penetrant Testing (PT)

1

## PT LEVEL 1 (RTO/ST1)

### Description

Candidates will have the opportunity to use the various techniques on welds, castings and wrought products whilst gaining detailed theoretical and practical knowledge on all the commonly encountered penetrant testing techniques. This course is suitable for beginners and personnel with existing NDT knowledge, this course is PCN recognized and provides excellent preparation for Level 1 and 2 examinations. It meets the training hour requirements as specified by the relevant PCN documentation.

**Duration**  
5 Days

**Entry Requirements**  
SPM (Sijil Pelajaran Malaysia) or equivalent.

Participants will receive official certificates issued by NMUC and UCTATI.

BINDT certificates will be awarded upon successful completion of the examination.

### Course Contents

- Principles of Penetrant Testing (PT): Capillary action, surface tension, and penetrant materials.
- PT Equipment: Yokes, coils, penetrant applicators, developers, and UV lights.
- Inspection Techniques: Applying PT techniques to detect surface-breaking flaws.
- Reporting: Documenting inspection results.

### Certification Validation by BINDT

Candidates must have at least 60 days of experience in Magnetic Particle Testing to receive validation by BINDT.

### Special Note

Candidates attempting a PCN examination must meet the PCN/CEN requirements. If attempting an ASNT/EN4179/NAS410 examination the requirements of your company's written practice must be met. This course is not suitable for BGAS-CSWIP examination preparation.

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## PT LEVEL 2 (RTO/ST6)

### Description

Candidates will have the opportunity to use the various techniques on welds, castings and wrought products whilst gaining detailed theoretical and practical knowledge on all the commonly encountered penetrant testing techniques. This course is suitable for beginners and personnel with existing NDT knowledge, this course is PCN recognized and provides excellent preparation for Level 1 and 2 examinations. It meets the training hour requirements as specified by the relevant PCN documentation.

**Duration**  
6 Days

**Entry Requirements**  
Diploma/Bachelor's Degree in Welding Technology or a related engineering field is preferred or completion of PT Level 1 certification

Participants will receive official certificates issued by NMUC and UCTATI.

BINDT certificates will be awarded upon successful completion of the examination.

### Course Contents

- Background requirements for test procedure
- Technique used
- Safety
- Reporting procedure
- Penetrant testing system
- Guidelines of selecting system for use
- Safety
- Reporting procedure
- Examination requirement
- Relevant BS and EN standards coverage
- MPI compared to other forms of NDT

### Certification Validation by BINDT

Candidates must have at least 60 days of experience in Magnetic Particle Testing to receive validation by BINDT.

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## PENETRANT TESTING EXAMINATION REVISION

### Description

Short term revision course intended to supplement the penetrant testing pre-approval course.

**Duration**  
2 Days

**Entry Requirements**  
Previous attendance of a PT Level 1 / PT Level 2 course is strongly recommended.

Participants will receive official certificates issued by NMUC and UCTATI.

BINDT certificates will be awarded upon successful completion of the examination.

### Course Contents

- Relevant examination criteria
- Practical exercise on equipment similar to that encountered in examinations
- A theory package oriented towards examination requirements
- Mock examination

### Certification Validation by BINDT

Candidates must have at least 60 days of experience in Magnetic Particle Testing to receive validation by BINDT.



Hybrid learning system available: Physical, Online, or a combination of both.

Most modules involve hands-on physical training.

Training locations: **Johor & Terengganu**

