

## PENETRANT TESTING (NDT-PT2)

### OBJECTIVES

At the end of the course, attendees shall be able to:

- Select suitable NDT technique and test method to be used
- Define the limitations of application of the testing method
- Translate NDT standards and specifications into NDT instructions
- Conduct test as per specifications
- Interpret and evaluate results according to applicable standards
- Organise and report the results of non-destructive tests
- Meets syllabus requirements for Level 2 – PCN or EN 473

### COURSE CONTENTS

The following are some of the training contents with regards to Penetrant Testing:

- General Theory - Principles of Penetrant Testing
- Limitations - Advantages and disadvantages
- Terminology associated with penetrant flaw detection
- Penetrant: color contrast, fluorescent, combined colour contrast and fluorescent. Penetrant removers
- Fixed installations, portable inspection kits and auxiliary equipment
- Sensitivity and Control Testing - Test blocks
- Testing Technique - Selection of appropriate technique
- Viewing conditions
- False indications and their cause
- Detectability of Defects
- Interpretation and Reporting including acceptance criteria
- Post Test Procedures Cleaning
- Safety Precautions – Fire hazards, electrical safety, safe use of UV(A) radiation
- Standards, codes and specifications
- Product Technology Theory - Basic Casting and Forgings Production
- Basic Welding Processes, Terms and weld defects
- Practical - Instruction Writing and testing , Standards and Specifications

### WHO SHOULD ATTEND

Technicians, Instructors, Surveyors, Engineers, NDT supervisors, QA/QC inspectors or anyone who is interested in NDT and requiring a general knowledge of NDT methods and ideal preparation for PCN examinations.

### RESOURCE PERSON

**Nizaha binti Mohamed Ashari** is currently the full time instructor for Magnetic Testing and Penetrant Testing with MINDT since 2006. She also has a Master's degree in Telecommunication Engineering from Universiti Malaya and also an Electrical Engineering degree from Universiti Teknologi Malaysia.

**For more information or registration, contact:**

**Sabah Skills & Technology Centre**

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**VISIT OUR WEBSITE at: <http://sstc.org.my>**

#### Duration

6 days

#### SSTC Member

RM5,787.60

#### Non SSTC Member

RM5,904.20

#### SME Training Grant

RM1,771.26

\*all rates inclusive of 6%  
GST



## PENETRANT TESTING (NDT-PT2)

- Quality assurance – QA/QC and inspection
- Personnel Certification – Welders, Weld Inspector Level 2 and NDT personnel
- Normative documents (codes)
- Appreciation to Non-Destructive Testing (NDT)

### WHO SHOULD ATTEND

Technicians, Instructors, Surveyors, Engineers, NDT supervisors, QA/QC inspectors or anyone who is interested in NDT and requiring a general knowledge of NDT methods and ideal preparation for PCN examinations.

### TRAINER

**Razali bin Ahmad** is currently an instructor for Welding Inspector with MINDT. He obtained his Civil Engineering's degree at the University of Alabama, USA and has a professional qualification certificate as a Welding Inspector Level 2. Razali has vast experience as a QC inspector for welding.

For more information or registration, contact:

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