



CENTROTEST ASIA TRAINING CENTER, INC.

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PENETRANT TESTING – Level I 16 hours (2 Days)

COURSE DESCRIPTION

This 16 hours course is a preparatory course designed for personnel without prior experience in the method. The course provides a full appreciation in the techniques and method of liquid penetrant testing. A high theory and practical content is offered. This course is designed to meet ANSI/ ASNT CP-105: "Topical Outlines for Qualification of Nondestructive Testing Personnel".

COURSE TOPICAL OUTLINE

1. Introduction
2. Liquid Penetrant Processing
3. Various Penetrant Testing Methods
4. Liquid Penetrant Testing Equipment

WHO SHOULD ATTEND

This course will benefit NDT personnel, maintenance personnel, Quality Assurance/ Quality Control Inspectors, engineers, surveyors, technicians, trainees in the aerospace, metal fabrication, oil refinery, petrochemical, offshore, shipbuilding, ship-repairing and building construction industries.

PENETRANT TESTING – Level II 24 hours (3 Days)

COURSE DESCRIPTION

This 24 hours course covers all theory aspects of the method including field aerosol as well as providing 50% practical "hands-on" workshop experience of the various techniques. This course is designed to meet ANSI/ ASNT CP-105: "Topical Outlines for Qualification of Nondestructive Testing Personnel".

COURSE TOPICAL OUTLINE

1. Review
2. Selection of the Appropriate Penetrant Testing Method
3. Inspection and Evaluation of Indications
4. Inspection Procedures and Standards
5. Basic Methods of Instruction

LEARNING OBJECTIVES

1. Basic principles and theoretical aspects of the liquid penetrant test method
2. Applications of the liquid penetrant test method
3. Types of discontinuities detected with the liquid penetrant test method
4. Cause and effect of various types of discontinuities
5. Operational steps in the liquid penetrant test and the importance of each step
6. Liquid penetrant examinations with both contrasting and fluorescent penetrant, following a written procedure.
7. Interpretation and evaluation of test results with respect to the applicable standards
8. Test reports and written procedure
9. Location of defects in various materials, components and structures with a high probability of detection

WHO SHOULD ATTEND

This course will benefit NDT personnel, maintenance personnel, Quality Assurance/ Quality Control Inspectors, engineers, surveyors, technicians, trainees in the aerospace, metal fabrication, oil refinery, petrochemical, offshore, shipbuilding, ship-repairing and building construction industries.