

COURSE SYLLYBUS: BASIC NDT COURSE

1. COURSE TITLE

Appreciation of Basic NDT Techniques.

2. DURATIONS

5 Days

3. CLASS APPROACH

This five-day course is intended for newcomers, engineering students, manager & engineers who want to have a basic knowledge of the conventional NDT techniques used for detection of defects in aviation.

4. OBJECTIVES

- a) Have an understanding of international personnel certification systems.
- b) NDT quality control
- c) Recognize the advantages and limitations of each NDT method.
- d) Describe the basic principles and theoretical aspects of the conventional NDT method.
- e) Describe the operational steps in the NDT and understand the importance of each step.

5. OUTCOME

The appreciative of the conventional NDT method advantageously combined with the theory and reporting practical. Up front lecturing is reduced to a minimum and the emphasis is on training to the specific. The advantages and limitations of each main method are described with practical demonstrations and hands-on sessions to enable the student to objectively understand each method's.

6. EQUIPMENT

MT Bench, Penetrant kit, ET flaw detector

7. REFERENCE MATERIAL

UniKL MIAT Practical Work Sheet / Instructor Notes

8. COURSE CONTENT

- a) Introduction to NDT application in aviation
- b) International personnel certification systems
- c) NDT quality control
- d) Advantages and limitations of NDT method
- e) Discontinuities
- f) Basic principles and theoretical aspects of the NDT method (PT, MT, UT, ET)
- g) Describe the operational steps in the NDT and understand the importance of each step (PT, MT, UT, ET)