UniKL MIAT
Malaysian Institute of Aviation Technology
Where Knowledge Is Applied

Four Days Course in Basic Gas Turbine Engine (Aircraft)

SYNOPSIS

This is a familiarization course aimed at providing knowledge to students with the fundamental construction of turbine engine and its related components, basic principles of gas turbine engine operation; and various systems in gas turbine engines.

Specific areas include background and development of turbine engines, turbine engine construction features, purpose, and theory of operation, maintenance, inspection, preventive maintenance and troubleshooting.

This course also describes the bearings used in gas turbine engines, how various engine systems such as lubrication system, fuel metering system, starting and ignition system work to support the operation of gas turbine engines. It also covers engine indication and interpretation of engine parameters and monitoring of engine operation.

A practical demonstration of engine ground run is also included in this course.

COURSE OUTCOME

The participants should be able to :

1. Identify the basic principles of gas turbine engines operation.

2. Explain the constructions of various types of gas turbine engines.

3. Examine the working principle of gas turbine engine and its components (modules).

4. Examine the operation of gas turbine engine Lubrication system, Fuel system and Starting & Ignition system.

5. Explain the basic maintenance and inspection of gas turbine engines.

6. Explain the basic troubleshooting of engine and engine systems for defects and abnormal operation.

7. Explain the standard procedure for engine starting.

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