

# Engine Condition Trend Monitoring – 1 Day

## Introduction

During normal operation all engines will experience rubbing, thermal stress, mechanical stress, dirt accumulation, foreign object ingestion and other events which will eventually result in a measurable decrease in efficiency.

By continuously monitoring the evolution of key parameters that can translate engine condition, deterioration in engine performance can be detected as well as early signs of engine faults and thus appropriate measures can be undertaken.

ECM is the continuous monitoring of key engine parameter to detect impending failures and assess engine performance. ECM uses standard engine and aircraft instrumentation for monitoring. No additional measurement equipment is needed.

For each Engine a baseline model that represents the expected behaviour of a given engine, The difference over time between measured data and the baseline model is called the parameter Delta.

Monitoring the evolution of these deltas is what gives knowledge about the current state of an engine and allows an estimation of how its performance has deteriorated with each flight cycle.

## Who is this course for?

This course is suitable for Reliability Department Personnel, Quality Assurance staff, CAMO & Technical Staff.

## What are the benefits of attending this training?

- Develop an Increased knowledge about engine on-wing behavior
- Understand how to Detect potential failures to avoid/reduce secondary damages
- Provide performance prediction and optimum aircraft operational planning
- Understand how to optimize shop capacity planning
- Be able to proactively Support early line maintenance decisions to avoid secondary damages and AOG's

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**Date**

**Category**

Personal Development

Venue

Level

Price

## What Makes SAS Engine Condition Trend Monitoring – 1 Day different? –

Because our courses are written by people who have lived through the regulations. The author of the training material has more than 25 years' experience as an auditor across the entire regulatory spectrum.

At Sofema Aviation Services our focus is on accepting that compliance with Regulations is in fact minimum compliance. Interpreting the regulations in a way which enables the development and optimisation of our business is where we should see opportunity to drive efficiencies and cost saving.

## Why Should I choose SAS for the training?

Sofema Aviation Services is a Regulatory Training and Consulting company with 45 years of commercial aviation experience and 10 years operational experience. Since the start we have provided certificates to approx 25,000 delegates and we have grown for 2 primary reasons!

The first is that we are professional and we listen to our customers.

The second reason is a combination of outstanding course fees, together with a world beating discount program which leaves our competitors way behind – please do not take our word for it, [check it out!](#)

## Detailed Content / Topics - The following Subjects will be addressed

- Abbreviations & Terminology
- Engine Fundamentals – Introduction
- Introduction to Engine Condition Trend Monitoring (ECTM)
- Trend Monitoring Parameters
- Condition-based Engine Maintenance
- Engine Maintenance Economics / Module / LLP
- Understanding EGT Margin
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## Target Groups

This course is aimed at Reliability Department Personnel, Quality Assurance staff, CAMO & Technical Staff.

## Pre-Requisites?

A background in an aviation airworthiness environment.

Will be an advantage as well as a fundamental awareness of current Aero Engine Technology.

## Learning Objectives

To develop a deep understanding of the elements related to ECTM. To be able to develop and Manage and Effective ECTM process within your organisation.

## Duration

1 day – The training will start at 09.00 and finish at 17.00, with appropriate refreshment breaks.

Sofema Aviation Services offers a flexible approach to developing all in-company training courses which are specific to the client's needs. If you would like additional information concerning how course content may be configured to be more appropriate for your organisation please email [office@sassofia.com](mailto:office@sassofia.com)

To register for this training, please email [office@sassofia.com](mailto:office@sassofia.com) or Call +359 28210806



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