

# Aircraft Inspection Techniques Initial – 2 Days

## Introduction

Inspection in aviation is mainly visual, typically comprising 80% of all inspection activities and Visual Inspection forms a vital part of the many available Non-Destructive Inspection (NDI) techniques where the inspector must visually assess an image of the area inspected.

Visual inspection is of the greatest importance to aviation reliability, for airframes, power plants and systems. Performed correctly it can detect a variety of defects, from cracks and corrosion to loose fasteners, ill-fitting doors, wear or stretching in control cables as well as damaged components.

The Maintenance process has come a long way over the last decades – however, the success of the entire process is dependent on the ability of the maintenance staff not just to perform inspections in the best way but to understand why they are performing inspections. (the criteria by which the object is being measured! (It is this knowledge which makes the difference and makes you into an effective inspector)

Aircraft Inspection is quite possibly one of the most important tasks that you as a certifying engineer will perform. The purpose of this training is to raise awareness regarding best practice and appropriate considerations when performing a range of maintenance inspections. the course considers best practice Inspection Techniques for Airframes, Engines & Structure as well as to consider the different forms of corrosion which are typically found, Fuel System Microbiological Contamination is also considered.

## Who is this course for?

145 Production Planning Staff, 145 Maintenance Inspection Staff, CAMO and Maintenance Planning Staff, CAMO & 145 Quality Assurance Staff, CAMO & 145 Safety System Staff, Maintenance Management Staff, Other Stakeholders and Engineering Training Staff.

## What is the benefit of the training – what will I learn?

- The purpose of this 2-Day Course is to provide an overview of best practice aircraft maintenance inspection techniques
- To further develop an understanding regarding the need for an effective aircraft maintenance inspection.
- To Provide the Aircraft Inspectors with a basic overview of factors affecting Inspection Performance
- Consider Best Practice Inspection Procedures and the potential for unidentified deterioration
- How to scan, search and identify components related to visual inspection task and to correctly identify and locate defects.
- How to engage with the intensive inspection programs required for older aircraft.
- Understand Inspection performance benchmarks and the determination of the relative consequences of speed/accuracy trade-offs

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**Date**

**Category**

Personal Development

Venue

Level

Price

## 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!](#)

## What Makes Aircraft Inspection Techniques – 2 Days – 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.

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

- Introduction – The Importance of Aircraft Inspection
- Abbreviations
- Airworthiness Inspection – The Role of Part 145 B1& B2 Certifier
- Introduction to MSG-3
- Considerations Related to MSG-3 Aircraft Inspection Standards
- Considering Inspection Tooling use and Maintenance & Human Factors Related to Inspection Activities
- Causes of Corrosion
- Types of Corrosion

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

- Corrosion Prevention Control Program CPCP Review
- How good are your Corrosion Control Assessment and Maintenance Procedures?
- Aircraft Fuel Tank Microbiological Concerns
- Considering Different types of Inspection GVI / DVI / SI
- Performing an Effective Aircraft Maintenance Inspection
- Inspection Performance & Staff Competence
- Development of Competence related to Practical Inspection Training
- Inspection Processes related to Engines
- Composite Damage Inspection and Tolerances
- Tapping Inspection
- General Guide to Effective Aircraft Inspection

## Target Groups

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## Pre-Requisites?

This is not an entry-level course and typically assumes as a minimum the completion of an Aviation Maintenance Training as well as a background in an aviation maintenance environment. Typically attendees will be either Part 66 LAE's or in the process of obtaining a Part 66 License

## Learning Objectives

To provide a detailed understanding of the best practice aircraft maintenance inspection techniques in a relevant and practical way.

To develop a detailed awareness regarding the need for effective aircraft maintenance inspection in all areas of Maintenance including Airframe, Engines and Structure.

## What do People Say about Sofema Aviation Services Training?

"The instructor used the right words to explain the material."

"The discussions among the group were very beneficial."

"The instructor showed very resourceful background and experience."

"All sections of the course were related to my field."

"Adequate answers were given to specific questions."

## Duration

2 Days – To commence 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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