

# Aircraft Inspection Techniques For CAT A Initial – ½ Day

## 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 practices and appropriate considerations when performing a range of maintenance inspections. the course considers best practice Inspection Techniques for Airframes, Engines & Structure as well as considers the different forms of corrosion which are typically found, Fuel System Microbiological Contamination is also considered.

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| <b>Category</b> | Personal Development |
| <b>Venue</b>    | On Demand            |
| <b>Level</b>    | Basic                |
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## What is the Benefit of this Training – What will I learn?

- The purpose of this 1.5-Day Course is to provide an overview of best-practice aircraft maintenance inspection techniques.
- To further develop an understanding of 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 tasks 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

## Who is the 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.

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

Introduction - The Importance of Aircraft Inspection  
Abbreviations & Definitions  
Airworthiness Inspection - The Role of Part 145 A, B1 & B2 Certifier  
Introduction to MSG-3 Inspection-Driven Process  
Considerations Related to MSG-3 Aircraft Inspection Standards  
Considering Inspection Tooling use and Maintenance & Human Factors Related to Inspection Activities  
Causes of Corrosion  
How good are your Corrosion Control Assessment and Maintenance Procedures?  
Considering Different types of Inspection GVI / DVI / SI  
Performing an Effective Aircraft Maintenance Inspection  
Inspection Processes related to Engines  
General Guide to Effective Aircraft Inspection  
145.A.48 Performance of Maintenance –consider the development of Critical Task Inspections & How to Manage  
145.A.50 Certification of Maintenance –Considering Group and Personal Obligations  
145.A.60 Occurrence Reporting Consider the role of Occurrence Reporting External and Internal –Iceberg of Ignorance

## 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.

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## Target Groups

The course is suitable for individuals who are involved in quality control, regulatory compliance, or safety management within the aviation industry.

## Pre-requisites

This is not an entry-level course and typically assumes as a minimum the completion of Aviation Maintenance Training as well as a background in an aviation maintenance environment.

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

*"I found satisfying answers to all my questions."*  
*"The instructor demonstrated very deep knowledge of the subject."*  
*"The length of the course fit my needs and expectations."*  
*"The content was really effective, I gained a lot of new knowledge."*  
*"The practical examples were perfectly delivered."*

## Duration

1/2 day – Start at 09.00 and finish at 13.00, with appropriate refreshment breaks.  
To register for this training, please email [team@sassofia.com](mailto:team@sassofia.com) or Call +359 28210806

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