

## Root Cause Analysis in Aviation System

*Sharm El-Sheikh (Egypt)*

*8 - 12 June 2025*

UK Traininig

# PARTNER



## Root Cause Analysis in Aviation System

Code: AV28 From: 8 - 12 June 2025 City: Sharm El-Sheikh (Egypt) Fees: 4400 Pound

### Introduction

Welcome to the Root Cause Analysis in Aviation Systems course! In this intensive program, we will delve into the essential aspects of conducting root cause analysis in the aviation industry. Root cause analysis is a critical practice that helps identify the underlying causes of incidents, accidents, and system failures, enabling organizations to implement effective corrective and preventive measures.

### Objectives

- Understand the importance of root cause analysis: Gain a deep understanding of the significance of root cause analysis in aviation systems, its role in preventing accidents and incidents, and its impact on safety management.
- Learn fundamental concepts and methodologies: Familiarize yourself with the key concepts, terminology, and methodologies related to root cause analysis, including various techniques and tools used in the process.
- Explore root cause analysis frameworks: Explore different root cause analysis frameworks and approaches commonly employed in the aviation industry, such as the "5 Whys," fault tree analysis, and fishbone diagrams.
- Master data collection and analysis: Acquire the skills and techniques necessary to effectively collect and analyze data during the root cause analysis process, including data validation, data sources, and statistical analysis.
- Develop problem-solving and critical thinking skills: Enhance your problem-solving and critical thinking abilities to identify root causes accurately, evaluate contributing factors, and develop comprehensive solutions.
- Implement effective corrective actions: Learn how to develop and implement effective corrective and preventive actions based on the identified root causes, considering practicality, feasibility, and risk management.
- Enhance safety culture and organizational learning: Understand the role of root cause analysis in promoting a robust safety culture within aviation organizations, fostering continuous improvement, and facilitating organizational learning from incidents.



## Course Outline

### Day 1

- Introduction to root cause analysis in aviation systems
- Importance and benefits of conducting root cause analysis
- Overview of the root cause analysis process

### Day 2

- Key concepts and terminology in root cause analysis
- Common methodologies and techniques used in root cause analysis
- Data collection methods and tools

### Day 3

- Root cause analysis frameworks and approaches
- The "5 Whys" technique
- Fault tree analysis

### Day 4

- Fishbone diagrams and cause-and-effect analysis
- Data analysis techniques for root cause identification
- Case studies and best practices in root cause analysis

### Day 5

- Developing and implementing corrective actions
- Risk management considerations in root cause analysis
- Safety culture enhancement through effective root cause analysis





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