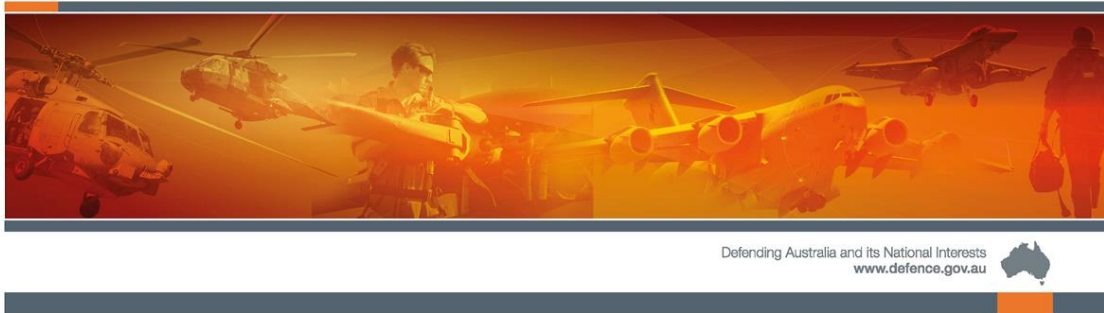


Defence Aviation Safety Authority



Aircraft Structural Integrity Familiarisation Course

Course Code

217809

Course duration

4 Days

Course Content

Aircraft Structural Integrity (ASI) Familiarisation Course provides a synopsis of ASI management in Defence. This course is primarily suited to Aircraft Structural Integrity Program (ASIP) managers, Defence personnel, Industry SI engineers, or airframe/structures engineers involved in SI management. The course is designed to highlight the importance of effective structural integrity management with case studies and group collaboration to engage students in the content. Students are encouraged to participate in debate and apply their own experience when exploring the subject matter. This course is intended to complement other Defence Aviation Safety Regulations (DASR) courses by providing specific information for how ASIPs enhance aircraft safety.

The course is designed to be interactive. Participants are required to develop a presentation throughout the course and deliver on the last day in order to demonstrate understanding of the key learning outcomes.

DAY 1

- Module 1 – What is an Aircraft Structural Integrity Program?
- Module 2 – Introduction to Aircraft Structures
- Module 3 – Threats to Structural Integrity
- Module 4 – Introduction to Structural Integrity Management
- Module 5 – Structural Airworthiness Requirements and Design Standards

DAY 2

- Module 6 – Fatigue Design Philosophies
- Module 7 – Fatigue Failure Case Studies
- Module 8 – Introduction to Environmental Degradation
- Module 9 – Environmental Degradation Case Studies
- Module 10 – Environmental Degradation Prevention and Management

DAY 3

- Module 11 – Structural Integrity Management Systems
- Module 12 – PC-9/A ASIP Case Study
- Module 13 – Structural Integrity and DASR
- Module 14 – Structural Integrity & Initial/Continued Airworthiness
- Module 15 – Managing Structural Airworthiness Limitations

DAY 4

- Module 16 – ASIP Manager Responsibilities
- Module 17 – Multi-Threat Case Studies
- Module 18 – Platform Presentations as Developed by Course Participants
- Module 19 – Course Summary

Course Pre-Requisites

To be eligible to attend the course, applicants must either be Defence personnel (ADF/APS) or personnel contracted to Defence, who are currently involved in (or planning to be involved in) ADF aircraft acquisitions and/or in-service management. Tertiary engineering qualification or extensive technical experience is highly desirable.

Target Audience

Anyone requiring familiarisation with ASI. This includes ASIP managers and their staff, DAVENG Desk Officers, Continuing Airworthiness Management Organisations (CAMO), Military Type Certificate Holders (MTCH)/Systems Project Office (SPO) engineers or anyone else who is expected to interact with the ASIP of a Defence aircraft. Due to the variety of personnel involved in a typical ASIP, this course is open to SGT (E6) up to GPCAPT (O6) as well as the APS/contractor equivalent.

Sessions

- **Session: 0010**
 - **Date:** TBD
 - **Location:** DPM & DST
 - **Nomination Closing Date:** TBD

Cost

There is no course fee.

This course is delivered in person at the venue location. The individual's parent unit/organisation is responsible for funding travel, meals and accommodation to attend the course.

Nomination Form

Personnel are to nominate directly to DASA Training using webform [AE655](#). If you are unable to nominate using the form attached, please contact DASA Training.

Event Administration Contact

DASA.Training@defence.gov.au