

# AVG 175 - AVIATION SAFETY

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## Course Description

This course provides an introduction and overview of the theories, concepts, and applications in the field of aviation safety to include accident theory, risk management, safety management systems, and principles of safe aircraft operation. Group 2 course.

## Credit Hours

2

## Contact Hours

2

## Lecture Hours

2

## Recommended Prerequisites or Skills Competencies

AVG 101 (Pvt Ground) and Lesson 29 (Stage 1 check) completed in AVF 111

## Course Learning Outcomes

### Knowledge:

- Be able to define common aircraft accident models using examples.

### Application:

- Be able to analyze the identified hazards and design a practical risk mitigation strategy utilizing established risk management principles.

### Integration:

- Be able to correlate specific safe operational practices with the four functional pillars of an effective Safety Management System (SMS).

### Human Dimension:

- Be able to evaluate how human factors such as fatigue, stress, cultural biases, and communication breakdowns contribute to accident models and reflect on their own potential role and biases in a collaborative flight environment.

### Caring - Civic Learning:

- Demonstrate a commitment to continuous safety improvement in all professional decisions and actions, rather than just compliance.

### Learning How to Learn:

- Be able to develop a personal strategy for seeking, analyzing, and incorporating new safety knowledge from industry sources to maintain and advance their professional competence.