



## **Course Description**

### **AVM1022 | Flight Operations | 3.00 credit**

An investigation of the occupational duties, responsibilities, and physical facilities required by the positions of pilot, co-pilot, flight engineer, dispatcher and flight attendant.

### **Course Competencies:**

**Competency 1:** The student will demonstrate knowledge and understanding of flight operations by:

1. Describing flight operations departments as they are found in today's industry, including an overview of the past, present, and future of flight operations
2. Analyzing aircraft and aircraft systems as they apply to flight operations, listing the various factors affecting aircraft performance
3. Understanding aviation meteorology as it pertains to flight operations, defining the function of flight operations, including the different departments found within, and the applicable regulations
4. Identifying dispatcher requirements, examining how airline maintenance operates and its role and effect on flight operations
5. Discussing the role of the flight operations professionals in the economic and planning functions of the airline.
6. Summarizing the government's role in airline and flight operations
7. Showing the importance of information technology in flight operations
8. Distinguishing the unique requirements of cargo operations in flight operations
9. Discussing the regional air carrier flight operation. J. Analyzing international flight operations

**Competency 2:** The student will analyze and interpret the assigned flight operations text from a variety of perspectives, including those of:

1. Visualizing the captain (pilot) functions
2. Identifying the first officer (co-pilot) functions
3. Understanding the flight engineer role
4. Envisioning the flight attendants, the dispatcher, and the company development

**Competency 3:** The student will produce reasoned, critical responses to common concerns in flight operations by:

1. Analyzing the duties and responsibilities of the various positions in the flight operations department of a typical airline
2. Identifying the various federal aviation regulations governing the various positions in the flight operations department of a typical air carrier
3. Pointing out and discussing various technological advances and their impact on the flight operations department

### **Learning Outcomes:**

- Communicate effectively using listening, speaking, reading, and writing skills
- Use quantitative analytical skills to evaluate and process numerical data
- Solve problems using critical and creative thinking and scientific reasoning