



9205

APPLIED AVIATION (12D)

40S/40E/40M

A Pilot Ground School Course



# 9205 APPLIED AVIATION (12D) 40S/40E/40M

## Course Description

Students develop an understanding of careers in the aviation industry, including training and employment opportunities, and focus on those careers that they are interested in pursuing. Students will meet with people who work in specific aviation careers. They will also develop a resumé as part of their plan to obtain their preferred aviation-related career.

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**Goal 1:** Describe and apply appropriate **health** and **safety** practices.

**GLO 1.1:** Describe and apply appropriate **health** and **safety** practices.

SLO 12D.1.1.1 Demonstrate an understanding of safe practices.

SLO 12D.1.1.2 Adhere to safe practices.

SLO 12C.1.1.3 Demonstrate an understanding of health and safety practices as they pertain to specific careers in aviation.

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**Goal 2:** Demonstrate an understanding of **human factors** in aviation.

**GLO 2.1:** Demonstrate an understanding of **human factors** in aviation.

SLO 12D.2.1.1 Apply an understanding of human factors as they pertain to specific careers in aviation.

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**Goal 3:** Demonstrate the use and management of **materials, tools,** and **equipment.**

**GLO 3.1:** Demonstrate the use and management of **materials, tools,** and **equipment.**

SLO 12D.3.1.1 Demonstrate the appropriate use and management of materials, tools, and equipment.

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**Goal 4:** Demonstrate an understanding of **flight** and **aerodynamics.**

**GLO 4.1:** Demonstrate an understanding of **flight** and **aerodynamics.**

No applicable SLOs.

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**Goal 5:** Demonstrate an understanding of **engines, airframes, systems, and instruments.**

**GLO 5.1:** Demonstrate an understanding of **engines, airframes, systems, and instruments.**

No applicable SLOs.

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**Goal 6:** Demonstrate an understanding of **meteorology** and the atmosphere.

**GLO 6.1:** Demonstrate an understanding of **meteorology** and the atmosphere.

No applicable SLOs.

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**Goal 7:** Demonstrate an understanding of **navigation, aerodromes, and airports.**

**GLO 7.1:** Demonstrate an understanding of **navigation.**

No applicable SLOs.

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**GLO 7.2:** Demonstrate an understanding of **aerodromes and airports.**

SLO 12D.7.2.1 Apply knowledge related to various careers related to aerodromes and airports.

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**Goal 8:** Describe and apply transferable **cross-curricular** knowledge and skills (of literacy, numeracy, and the sciences) as they apply to aviation.

**GLO 8.1:** Describe and apply **literacy** knowledge and skills related to aviation.

SLO 12D.8.1.1 Demonstrate the ability to read, understand, and communicate using language, signs, symbols, and images.

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**GLO 8.2:** Describe and apply **numeracy** knowledge and skills related to aviation.

SLO 12D.8.2.1 Demonstrate the ability to apply numeracy skills and knowledge as they pertain to careers in aviation.

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**GLO 8.3:** Describe and apply knowledge and skills from the **sciences** that relate to aviation.

SLO 12D.8.3.1 Apply scientific skills and knowledge as they relate to careers in aviation.

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**Goal 9:** Demonstrate an understanding of the **ethical and legal standards** that pertain to aviation.

**GLO 9.1:** Demonstrate an understanding of the **ethical standards** that pertain to aviation.

SLO 12D.9.1.1 Demonstrate an understanding of the ethical standards found in specific careers in aviation.

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**GLO 9.2:** Demonstrate an understanding of **air law**.

SLO 12D.9.2.1 Demonstrate an understanding of the security considerations related to specific careers in aviation.

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**Goal 10:** Demonstrate **employability skills**.

**GLO 10.1:** Demonstrate basic **employability skills**.

SLO 12D.10.1.1 Demonstrate regular and punctual attendance.  
SLO 12D.10.1.2 Communicate respectfully and effectively with others.  
SLO 12D.10.1.3 Take responsibility for own actions.  
SLO 12D.10.1.4 Demonstrate adaptability, initiative, and effort.  
SLO 12D.10.1.5 Demonstrate teamwork skills.  
SLO 12D.10.1.6 Stay on task and use time effectively.  
SLO 12D.10.1.7 Demonstrate the responsible use of wireless communication devices.

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**GLO 10.2:** Demonstrate **critical thinking** skills.

SLO 12D.10.2.1 Solve problems related to various careers in aviation.

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**GLO 10.3:** Demonstrate an understanding of **culture** in the workplace.

SLO 12D.10.3.1 Demonstrate an understanding of the workplace cultures related to various careers in aviation.

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**Goal 11:** Demonstrate an understanding of **sustainability** as it pertains to aviation.

**GLO 11.1:** Demonstrate an understanding of the impact of the aviation industry on **human sustainability** and on the health and well-being of aviation workers and passengers.

SLO 12D.11.1.1 Demonstrate an understanding of those human factors that have long-lasting health implications for workers in various careers in aviation.

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**GLO 11.2:** Demonstrate an understanding of the aviation industry's **sustainability practices** and impact on the environment.

SLO 12D.11.2.1 Demonstrate an understanding of sustainability concerns related to specific careers in aviation.

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**Goal 12:** Demonstrate an understanding of the **scope** of, and **education and employment opportunities** in, the aviation industry.

**GLO 12.1:** Demonstrate an understanding of the **scope** of the aviation industry.

No applicable SLOs.

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**GLO 12.2:** Demonstrate an understanding of **education and employment opportunities** in the aviation industry.

SLO 12D.12.2.1 Demonstrate an understanding of educational and employment opportunities in aviation at the local, regional, and national levels.

SLO 12D.12.2.2 Demonstrate an awareness of educational and employment opportunities in aviation at the international level.

SLO 12D.12.2.3 Create a personal education plan to obtain a chosen aviation career.

SLO 12D.12.2.4 Create a resumé and cover letter to obtain employment in aviation.

SLO 12D.12.2.5 Demonstrate the ability to participate in a job interview.

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**Goal 13:** Demonstrate an understanding of the **evolution** of aviation, including its **technological progression and emerging trends**.

**GLO 13.1:** Demonstrate an understanding of the **evolution** of aviation, including its **technological progression and emerging trends**.

SLO 12D.13.1.1 Demonstrate an understanding of the evolution of certain careers in aviation, including their technological progression and emerging trends.

