Aerospace Workforce Educator Program

Lesson Plan Overview

Aerospace Workforce Educator Program lessons are designed to help students build the foundational skills needed for aviation careers while gaining early awareness of the many professions that support our aviation system. Each lesson introduces core concepts—such as navigation, communication, safety, design, or problem-solving—and connects them directly to the real work of pilots, air traffic controllers, drone operators, maintenance technicians, airport specialists, and other aviation professionals. By making these connections visible and age-appropriate, educators can help students see how classroom learning links to real careers and inspires interest in fields they may not yet know exist.

These lessons are built to fit easily into existing instructional time and to strengthen students' understanding of how these concepts are applied in the world around them, especially in aviation.

Grade Level	Varies
Primary STEM Skill Focus Area	Varies
Next Gen Science Standards	Varies

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1. Lesson Objectives

Measurable outcomes describing what students will understand or be able to do by the end of the lesson. Examples may include:

- Identify key concepts related to the topic.
- Explain how the topic connects to real-world aviation.
- Describe safety, environmental, or operational considerations.

- Recognize careers associated with the topic.

2. Overview

Provides a brief narrative summary of the lesson's focus. Includes:

- A simple explanation of the topic.
- Why it matters in aviation.
- How the educator will engage students.
- Real-world or community tie-ins.

This section should give educators a snapshot of what the lesson is about and how it supports the FAA's workforce development goals.

3. Resources

A list of items for the educator to review before teaching. This can include:

- Key vocabulary terms.
- Short videos or animations.
- Relevant images or diagrams.

Ensure that you review these resources ahead of time to ensure compliance with school policies and access to technology.

4. Activate Prior Knowledge (5 minutes)

Provides starter questions to spark discussion. These should:

- Assess familiarity with the topic.
- Connect learning to real-life experiences.
- Set the stage for new concepts.

This section encourages interactive dialogue before formal instruction begins.

5. Instructional Sections

Breaks the lesson into structured content segments (i.e., introduction, subtopics, applications, safety, etc.). Includes:

- Recommended timing.
- A short description of what Educators should teach.
- Optional notes about visuals or activities.
- A reminder to educators that they may tailor the lessons to their audience or to time constraints.

6. What Did You Learn? (5 minutes)

Provides reflection or discussion questions to close the lesson. These should review:

- Key vocabulary.
- Essential facts.
- Real-world applications.
- Safety or operational considerations, if relevant.

7. Extension Activities

Provides enrichment options educators can use after the lesson. Examples:

- Drawing or model-building activities.
- Writing prompts.
- Research tasks.
- Community or home connections.

8. Supplies

Lists materials needed to deliver the lesson.