Aircraft Technical Inspection Report - Instructional Scenario

Contents

Chapter 1. Writing a Technical Inspection Report for Cessna 172 Skyhawk

Writing a Technical Inspection Report for Cessna 172 Skyhawk Project

Title: Writing a Technical Inspection Report for Cessna 172 Skyhawk

Sector: Aviation / ICAO Language Training / Technical Documentation

Role: Instructional Designer and Technical Writer

Objective: Design and deliver a structured learning module that guides learners through the process of writing a formal aircraft inspection report using ICAO-compliant English and technical terminology.

Book: Aviation English - ICAO Compliance - Macmillan

Audience: Aviation Students

Chapter 2. Learning Outcomes

Learning Outcomes

- **Language Objectives:**
  - Use formal, aviation-specific vocabulary (e.g., fuselage, rudder, ailerons).
  - Apply ICAO Level 3–4 English structures for technical reporting.
  - Practice functional grammar for describing discrepancies and issuing recommendations.
- **Technical Communication Objectives:**
  - Analyze and replicate the structure of a professional inspection report.
  - Identify and describe aircraft discrepancies using precise language.
  - Formulate actionable recommendations in a formal tone.

Chapter 3. Instructional Flow

Instructional Flow

Table 1. Instructional flow during the lesson

Phase	Activity	Skills Developed
Vocabulary Activation	Matching aircraft parts to functions	Terminology recognition, oral fluency
Report Analysis	Reading and dissecting a sample report	Structural awareness, phrase acquisition
Inspection Simulation	Describing visual discrepancies	Observation, technical phrasing
Report Writing	Drafting a formal inspection report	Structured writing, compliance tone
Peer Review	Feedback and correction	Editing, clarity, formal style refinement

Chapter 4. Output: Aircraft Inspection Report

Sample Output: Aircraft Inspection Report

Date: September 22, 2025

Aircraft Type: Cessna 172 Skyhawk

Registration Number: SP-XYZ

Inspector: Krzysztof S

Inspected Components:

- Fuselage
- Wings
- Landing Gear
- Engine and Cowling
- Flight Control Surfaces
- Propeller

Observed Discrepancies:

- *Fuselage:* Minor dent (5 cm) behind passenger door
- *Left Wing:* Scratch on leading edge; requires evaluation
- *Landing Gear:* Oil leakage near right wheel; source unknown

Recommendations:

- Inspect fuselage dent for structural impact
- Clean and treat wing scratch to prevent corrosion
- Investigate and repair landing gear leak; check hydraulic fluid level

Chapter 5. Instructional Design Highlights

Instructional Design Highlights

- **Real-World Simulation:** Learners engage with authentic inspection scenarios using visual prompts and structured templates.
- **Compliance Alignment:** Language and format reflect ICAO standards for aviation English and technical documentation.
- **Scaffolded Learning:** Each phase builds toward independent report creation, reinforcing both linguistic and procedural accuracy.
- **Feedback Loop:** Peer and instructor review ensures clarity, correctness, and professional tone.

Chapter 6. Reflections and Relevance

Reflections and Relevance

This scenario showcases my ability to:

- Translate regulatory and technical standards into accessible instructional formats.
- Design bilingual, compliance-aligned learning experiences.
- Guide learners through structured documentation processes in high-stakes sectors.
- Balance clarity, precision, and learner engagement in technical writing.