

Instructional Scenario – Technical Specification Sheet Creation (Leopard 2 MBT)

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Chapter 1. Technical Specification Sheet Creation (Leopard 2 MBT)

Project Title: Creating a Technical Specification Sheet for the Leopard 2 Main Battle Tank

Sector: Military / Defense Education

Role: Instructional Designer & Technical Writer

Objective: Design and deliver a bilingual instructional scenario that teaches learners how to extract, structure, and present technical specifications of a military vehicle using English-language source material.

Book: Campaign 1- Macmillan Publishing House

Chapter 2. Learning Outcomes and Technical Communication Objectives

Learning Outcomes

- **Language Objectives:**

- Reinforce use of interrogatives with “How” (e.g., How fast, How heavy).
- Practice pronunciation of decimal values in English.
- Introduce domain-specific vocabulary (e.g., hull, turret, crew).

- **Technical Communication Objectives:**

- Develop skills in reading and listening for key technical data.
- Apply structured questioning to extract specifications.
- Create a professional technical specification sheet.

Chapter 3. Instructional Flow

Instructional Flow

Table 1. Instructional flow

Phase	Activity	Skills Developed
Warm-Up	Brainstorming: What is a technical specification?	Conceptual framing, vocabulary activation
Visual Identification	Labeling tank components (hull, turret, tracks)	Terminology mapping, visual literacy
Data Extraction	Listening to audio spec sheet, filling in missing data	Auditory processing, numerical accuracy
Grammar Practice	Formulating and answering "How" questions	Functional grammar, peer interaction
Final Task	Creating and presenting a spec sheet	Technical writing, oral presentation

Chapter 4. Instructional Design Highlights

Instructional Design Highlights

- **Multimodal Input:** Combines visual, auditory, and textual materials to support diverse learning styles.
- **Authentic Task:** Learners simulate real-world technical documentation by producing a spec sheet.
- **Bilingual Scaffolding:** Polish-language support ensures accessibility while reinforcing English technical terminology.
- **Assessment Criteria:** Accuracy of data, clarity of structure, pronunciation, and use of domain-specific language.

Chapter 5. Output: Technical Specification Sheet

LEOPARD 2 Main Battle Tank (MBT) Using Countries: Austria, Greece, Holland, Sweden, Switzerland

Crew: 4 Armament:

- 120 mm gun
- 7.62 mm machine gun

Dimensions & Weight:

- Height: 2.48 m
- Width: 3.7 m
- Weight: 55,150 kg

Performance:

- Max Road Speed: 72 km/h

Key Components:

- Hull: Main body
- Turret: Rotating gun mount
- Tracks: Mobility system
- Main Gun: Primary weapon

Chapter 6. Reflections & Relevance

Reflections & Relevance

This scenario demonstrates my ability to:

- Translate complex technical data into learner-friendly formats.
- Design bilingual, user-centered instructional materials.
- Align language learning with real-world technical communication tasks.
- Support learners in regulated sectors with precision and clarity.