

Research Skills RSC777

Task 8

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Part

1

مجتمع الدراسة : Study population

Examples: All OT engineers working in industrial plants in Saudi Arabia.

All cybersecurity managers in critical infrastructure companies.

All students enrolled in a specific university program.

Part

2

Study Sample : عينة الدراسة

A selected group of 30 OT engineers from the population of all OT engineers.

10 cybersecurity managers chosen to participate in interviews.

Part

2

Justification for Choosing a Specific Sample Type

Researchers select a particular sample type based on:

1. Research objectives

If the goal is understanding deep insights → **purposive sample**.

If the goal is generalization → **random sample**.

2. Accessibility and feasibility

Some populations are hard to reach (e.g., OT engineers in critical infrastructure).

3. Sensitivity of the topic

Cybersecurity often requires **targeted purposive sampling** due to confidentiality.

4. Variation in characteristics

If the population is diverse, the researcher might choose **stratified sampling**.

5. Time and resource constraints

Part

2

Proposed Study Population and Sample

Since my topic is **OT Cybersecurity**:

Study Population

All professionals involved in OT cybersecurity across industrial sectors, including:

OT/ICS Engineers

OT Network Specialists

Cybersecurity Managers

Control Room Operators

Vendors and system integrators

Location: Saudi Arabia or GCC region