

# Acceptance Sampling - Step 1: Define the Purpose

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Acceptance sampling is a quality control method used to decide whether to accept or reject a batch (lot) of products based on the inspection of a sample rather than the entire lot.

It is typically used when:

- 100% inspection is too costly or time-consuming
- The inspection is destructive (e.g., crash testing, food testing)
- Speed is essential in decision-making

Example:

A company receives a shipment of 20,000 screws from a supplier. Rather than checking each screw, the company decides to use acceptance sampling to inspect a small portion. If the sample meets the quality standard, the shipment is accepted.

If not, the entire lot is rejected or subjected to further inspection.