

# Acceptance Sampling - Step 5: Inspect the Sample

## Step 5: Inspect the Sample

Each item in the sample is inspected for defects or nonconformities. The inspection can be visual, functional, or dimensional, depending on product requirements.

Key inspection types:

- Visual: appearance, cracks, discoloration
- Functional: performance test (e.g., does it work?)
- Dimensional: size, fit, and alignment

Example:

From the sample of 200 LED bulbs:

- 3 bulbs do not light up (functional defect)
- 1 bulb has a cracked glass shell (visual defect)

Total defects found: 4

These are recorded and compared to the acceptance number ( $c = 5$ ). Since  $4 \leq 5$ , the lot is accepted.