

Acceptance Sampling - Step 6: Make a Decision

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After inspecting the sample, the number of defects found is compared to the acceptance number (c) in the sampling plan.

Decision Rule:

- If defects $\leq c$: Accept the lot
- If defects $> c$: Reject the lot

This decision determines whether the entire lot is allowed to move forward (e.g., shipping, production, or storage).

Example:

From the inspected sample of 200 LED bulbs:

- 7 defective bulbs were found
- Acceptance number (c) = 5

Since $7 > 5$, the lot is rejected. The batch does not meet the quality standard and must be handled according to company policy.