

Acceptance Sampling - Step 3: Choose the Sampling Plan

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A sampling plan defines how many items to inspect and the criteria for acceptance or rejection. It includes:

- Sample size (n): how many items to inspect
- Acceptance number (c): the maximum number of defects allowed in the sample

The plan is chosen based on:

- Lot size
- Acceptable Quality Level (AQL)
- Inspection level (e.g., General Level II)

Example:

For a lot of 5,000 LED bulbs, the company chooses:

- AQL = 1.5%
- Inspection Level = General II

According to the sampling standard (e.g., ISO 2859-1), the corresponding sampling plan is:

- Sample size: 200 bulbs
- Acceptance number (c): 5

This means: If 5 or fewer defective bulbs are found in the 200, the lot is accepted. If 6 or more are found, the lot is rejected.