

Acceptance Sampling - Step 2: Select the Lot

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The "lot" is the batch of items from which the sample will be drawn. A well-defined lot is essential for valid sampling.

A lot should be:

- Clearly defined (e.g., quantity, production time, origin)
- Homogeneous (produced under similar conditions)
- Traceable and separated from other lots

Example:

A company manufactures LED light bulbs. On Monday's second shift, the production line completed a lot of 5,000 bulbs.

All were produced using the same materials, machines, and labor.

This batch is now identified as one inspection lot for acceptance sampling. Its uniformity ensures that the sample results can reliably reflect the quality of the entire lot.