

Quality Control & Inspection Flowchart

Quality control is a fundamental aspect of manufacturing and production, ensuring that products meet predetermined standards of excellence. This process is designed to systematically assess products at different stages of production to detect defects and maintain consistency. Implementing a structured quality control workflow prevents costly recalls, enhances customer satisfaction, and upholds industry standards.

Step-by-Step Process:

- Start

The quality control process is initiated before final product distribution.

- Select Sample for Inspection

A subset of manufactured units is randomly selected for assessment.

- Conduct Quality Tests

The selected units undergo a series of tests to evaluate structural integrity, performance, and durability.

- Meets Quality Standards?

If the product meets the required specifications, it is approved; otherwise, further analysis is required.

- Approve for Distribution

Successfully tested products proceed to packaging and shipping.

- Reject & Investigate

Defective units are separated, and an investigation is conducted to determine the cause of failure.

- Rework Defective Units

If possible, faulty products are reworked and retested before approval.

- Inspection Completed

The process concludes, ensuring that only high-quality products reach the market.