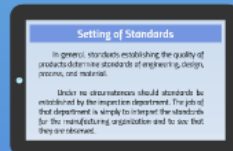
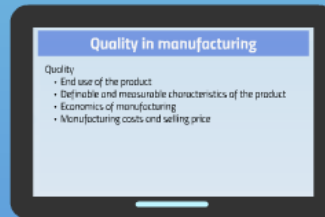


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# Quality Control

**Inspection Practices**

1. Method for Assessment of Inspection  
2. Control Inspection Method and Accuracy

**Quality Specifications**

- 1. Process with customer value
- 2. Control of quality of the product
- 3. Control of quality of the process
- 4. Control of quality of the material



**Quality in manufacturing**

Quality

- End use of the product
- Definable and measurable characteristics of the product
- Economics of manufacturing
- Manufacturing costs and selling price

**Inspection Practices**

1. Control Inspection Method and Accuracy

2. Quality of Inspection Method

3. Quality of Inspection Method



**Standard of Quality Control**

- The Standard of Quality Control
- The Standard of Quality Control
- The Standard of Quality Control

**Standards and Specifications**

1. Standards and Specifications

2. Standards and Specifications

3. Standards and Specifications

**Setting of Standards**

In general, standards establishing the quality of products determine standards of engineering, design, process, and material.

Under no circumstances should standards be established by the inspection department. The job of that department is simply to interpret the standards for the manufacturing organization and to see that they are observed.

**INSPECTION**

1. Inspection

2. Inspection

3. Inspection

1. Inspection

2. Inspection

3. Inspection



**Inspection Practices**

1. Check Final Product Quality

2. Check the Inspection Operation

3. Inspect for Defects

4. Inspect for Defects



# Quality Control

# Quality in manufacturing

## Quality

- End use of the product
- Definable and measurable characteristics of the product
- Economics of manufacturing
- Manufacturing costs and selling price

# Scope of Quality Control

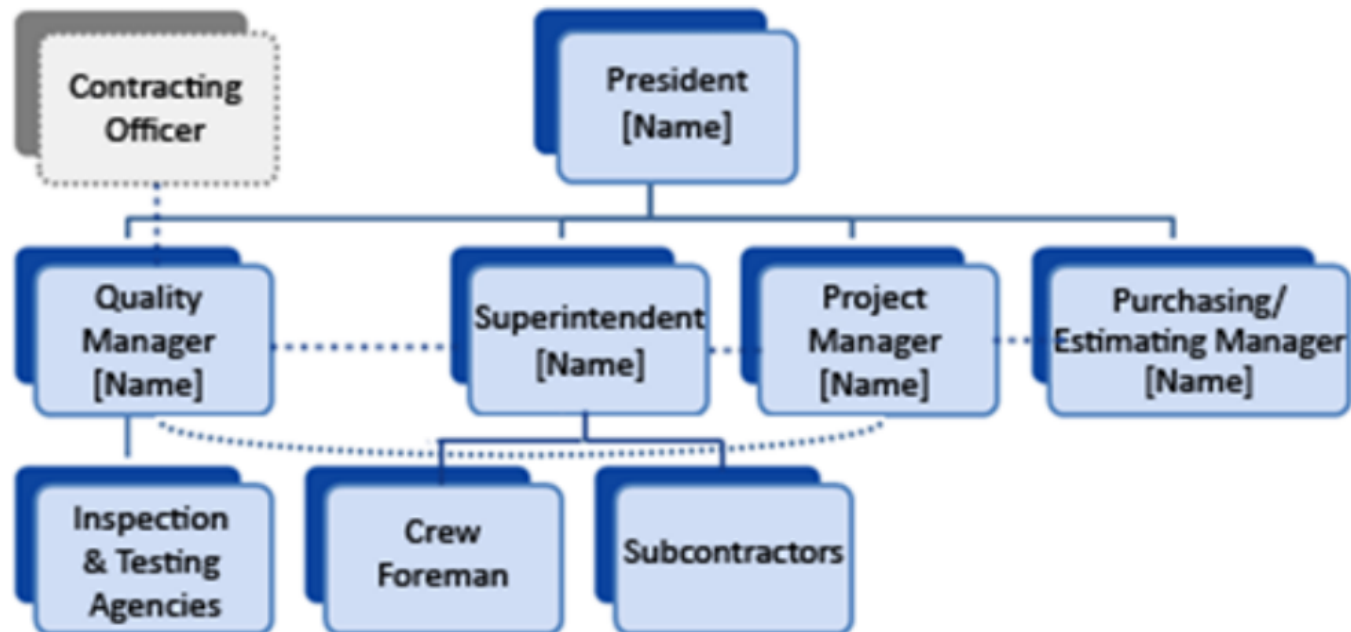
Four Principal Tools of the Trade

1. Standards and specifications
2. Inspection
3. Statistical techniques
4. Measuring instruments



# Organization for Quality Control

Project Quality Control Organization Chart



# Standards and Specifications

*'Perfection in manufacture is impossible to attain and costly to approach.'*

## **Tolerances**

- A product must be acceptable to customers as regards both quality and cost. Somewhere along the scales of quality and cost there is a point of compromise at which the quality meets the customer's minimum requirements and the cost fits his pocketbook.
- "Zone of acceptability"

## **Two Classes of Manufacturing Variables**

Chance variables

Assignable variables

The chance variables in a manufacturing process generate what is known as the *process of capability*.

***Interchangeable manufacture***

***Selective assembly***