STA 3180 Statistical Modelling: Quality Control

Quality Control

Definition

Quality control (QC) is a process used to ensure that products and services meet certain standards of quality. It involves the use of various techniques and tools to identify, measure, and control the quality of products and services. Quality control is an important part of any organization's operations, as it helps to ensure customer satisfaction and product reliability.

Key Concepts

1. Quality Assurance: Quality assurance is the process of ensuring that products and services meet certain standards of quality. Quality assurance involves the use of various techniques and tools to identify, measure, and control the quality of products and services.

2. Quality Control: Quality control is the process of monitoring and evaluating the quality of products and services. Quality control involves the use of various techniques and tools to identify, measure, and control the quality of products and services.

3. Statistical Process Control (SPC): Statistical process control (SPC) is a method of quality control that uses statistical methods to monitor and control processes. SPC involves the use of various techniques and tools to identify, measure, and control the quality of products and services.

4. Quality Management System (QMS): A quality management system (QMS) is a set of policies, procedures, and processes used to ensure that products and services meet certain standards of quality. A QMS helps to ensure customer satisfaction and product reliability.

Practice Multiple Choice Questions

Q1. Which of the following is NOT a key concept related to quality control?

A. Quality Assurance

B. Quality Improvement

C. Statistical Process Control

D. Quality Management System

Answer: B. Quality Improvement

Explanation: Quality improvement is not a key concept related to quality control. Quality assurance, statistical process control, and quality management system are all key concepts related to quality control.