



STATISTICAL PROCESS CONTROL (SPC) TRAINING



MTBM Group Sdn. Bhd. (1600656-M)

Level 8, MCT Tower, Sky Park, One City, Jalan USJ 25/1, 47650 Subang Jaya, Selangor

Course Title: Statistical Process Control (SPC) Training

Course Validity: 2 Days

Validity: Not Applicable

HRD Corp Scheme: Claimable

INTRODUCTION

This 2-day training program focuses on Statistical Process Control (SPC), a data-driven methodology for monitoring and controlling processes. Participants will learn to use statistical tools to analyze and improve process performance, reduce variability, and ensure product quality.

OBJECTIVE(S):

- Understand the principles and benefits of Statistical Process Control (SPC).
- Learn how to use control charts to monitor process stability.
- Develop skills to interpret SPC data for identifying trends and variations.
- Gain knowledge to reduce process variability and improve quality.
- Implement SPC techniques to meet industry standards and customer requirements.

TARGET GROUP(S):

- Quality assurance and control personnel.
- Process engineers and production managers.
- Supervisors and team leaders.
- Employees involved in process monitoring and improvement.

ENTRY REQUIREMENT(S):

- Able to read, write, and communicate verbally in Malay/English.

TOPIC(S):

1. Introduction to Statistical Process Control (SPC).
2. Types of Variations and Process Capability Analysis.
3. Control Charts: Construction and Interpretation.
4. Identifying and Addressing Process Variation.
5. Practical Applications of SPC in Quality Improvement.

LIST OF REFERENCE BOOK(S):

- "Introduction to Statistical Quality Control" by Douglas C. Montgomery.
- AIAG SPC Manual.

LIST OF TEACHING AID(S):

- SPC templates and worksheets.
- Statistical software (e.g., Minitab, Excel).
- LCD projector and computer.
- Whiteboard with accessories.

METHODOLOGY(S):

- Lecture.
- Group discussions and brainstorming sessions.
- Hands-on exercises on creating and interpreting control charts.
- Case study analysis on SPC applications.

TRAINING SCHEDULE

Day 1

Time	Activity/Topic
8:30 am - 9:00 am	Registration and Introduction
9:00 am - 10:30 am	Topic 1: Introduction to Statistical Process Control (SPC)
10:30 am - 10:45 am	Morning Tea Break
10:45 am - 12:30 pm	Topic 2: Types of Variations and Process Capability Analysis
12:30 pm - 1:30 pm	Lunch Break
1:30 pm - 3:30 pm	Topic 3: Control Charts: Construction and Types
3:30 pm - 3:45 pm	Afternoon Tea Break
3:45 pm - 5:00 pm	Practical Exercise: Constructing Control Charts

TRAINING SCHEDULE

Day 2

Time	Activity/Topic
8:30 am - 9:00 am	Recap of Day 1
9:00 am - 10:30 am	Topic 4: Identifying and Addressing Process Variations
10:30 am - 10:45 am	Morning Tea Break
10:45 am - 12:30 pm	Topic 5: Practical Applications of SPC in Quality Improvement
12:30 pm - 1:30 pm	Lunch Break
1:30 pm - 3:30 pm	Practical Exercise: Analyzing Process Capability Data
3:30 pm - 3:45 pm	Afternoon Tea Break
3:45 pm - 5:00 pm	Case Study: Successful SPC Implementation