



Statistical Process Control (SPC)

Overview

The objective of this course is to provide participants the concepts and methodology to establish and implement SPC by understanding the relationship between variation and quality, procedures to construct control charts and data interpretation, control limits revision guidelines, Process Stability and Capability analyses, and overall SPC strategy to improve the quality of the product, reduce costs and strengthen market position.

Targeted Group

Engineers, Quality/Reliability Engineers, Statisticians, Technicians and whoever will be required to establish and/or implement SPC in manufacturing production floor for quality improvement of the products and customer satisfaction through real time detection, containment and prevention of process excursions.

Pre-requisite

Good understanding in basic Statistics (basic terms and concepts for statistical analysis, common graphical and numerical analyses, role of Statistics, data type, meaning and role of X and Y variables) and some exposure in area of application. The understanding/exposure allows the learners to follow the class well and be able to apply the knowledge learned on the job immediately after the class. Participants are required to install Microsoft Excel prior the class.

Methodology

PowerPoint presentation, hands-on activities, and Q&A.

Duration

2 Days

Course Schedule

Day 1

TIME	ACTIVITY
9:00a.m-10:30a.m	SPC Overview
10:30a.m-10:45a.m	Morning Tea Break
10:45a.m.-12:00p.m.	What is Variation?
12:00p.m-1:00p.m	Lunch
1:00p.m-2:00p.m	Introduction to Control Chart
2:00p.m-3:00p.m	Afternoon Tea Break
3:00p.m-3:15p.m	Control Charts for Variables Data
3:15p.m-4:15p.m	RFC (Response Flow Checklist)
4:15p.m-5:00p.m	Case Study #1

Day 2

TIME	ACTIVITY
9:00a.m-10:30a.m	Control Charts for Attributes Data
10:30a.m-10:45a.m	Case Study #2
10:45a.m.-12:00p.m.	Control Limits Revision Guidelines
12:00p.m-1:00p.m	Lunch
1:00p.m-2:45p.m	Process Stability and Capability Analyses
2:45p.m-3:00p.m	Afternoon Tea Break
3:00p.m-4:45p.m	Overall SPC Strategy
4:45p.m-5:00p.m	Recap & Summary

About Elite Indigo

Elite Indigo Consulting provides corporate training to the semiconductor and manufacturing industries. With a humble beginning of one founding member with passion and desire to share his 20 years of experiences in Smart Manufacturing for global manufacturing facilities, now, we have a strong and competent team of 20 members, all aligned with company mission, vision and core values.

Our Mission

"Transform Data into Insights - Leap Forward"

Our Vision

Be a Global Trusted Advisor in the Areas of Skills Development, Consultancy & Software Solutions specialising in Semiconductor & Manufacturing industries.

Our Core Values

