



## Acceptance Sampling



### Course Objective

The objective of this course is to provide participants the ability to construct, compare and use OC curves to assess the power of a sampling plan, understand/differentiate common types of sampling approaches and determine sampling plan using JMP SOS (Stats One Stop), select an appropriate sampling approach for quality monitor or inspection gate.

### Targeted Group

Quality Assurance, Engineering, Statistician, Integration, Materials.

### Pre-requisites

Vital and Applied Stats 101. Good understanding in basic Statistics (role of Statistics, data type, basic terms and concepts for statistical analysis, common graphical and numerical analyses, 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 JMP Software (SAS JMP Pro 16.2 or later) prior the class.

### Delivery Mode

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

### Training Aid

Laptop and Zoom (or equivalent) presentation mode for online session. Projector for face-to-face session.

## Course Duration

1-day, 8 hours/day.

## Course Schedule

1. Module 1: Acceptance Sampling Introduction
  - a. Where should Inspection be performed?
  - b. Types of Inspection
  - c. Acceptance Sampling vs. Process Control
  - d. What is a Sampling Plan?
  - e. Types of Sampling Plans
  - f. Operating Characteristics (OC) Curve
  - g. Types of Decision Error
  - h. Sampling Plan Selection Criteria
2. Module 2: Sampling Plan Determination
  - a. AQL Sampling Approach
  - b. LTPD Sampling Approach
  - c. Combined AQL/LTPD Sampling Approach
  - d. AOQL Sampling Approach
  - e. Sequential Sampling Plan
  - f. Pros and Cons for each Sampling Approach
  - g. Average Total Inspection (ATI) Interpretation
  - h. Sampling Plan Selection Guidelines

## 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

