



Public Training/Workshop#

STATISTICAL PROCESS CONTROL

"We Make Learning More Adventure"

RATIONALE:

This program is designed to teach the fundamentals of Statistical Quality Control. It covers the vital Statistical Quality Control Tools required for process control. Thus, it also improves process/ product quality, reduces manufacturing costs and satisfies customers' requirements by applying the proven Statistical Process Control (SPC) technique.

OBJECTIVES:

At the end of the program, the participants shall be able to:

- Master the statistical techniques and apply these tools to improve process and product quality through variation and process centering
- How to set up the SPC system
- How to interpret the reading
- How to use result for improvement
- Save cost by optimizing process
- Identify the opportunities for product/process improvement
- Perform measurement system repeatability and reproducibility studies
- Perform process capability study
- Create a process control and monitoring system



METHODOLOGY:

A blend of training techniques incorporating lectures, simulations games, workshops case study and role play.

Date:

Please Refer To web

Venue:

Duration:

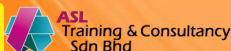
2 days, 9am – 5pm

Trainer :

Joseph Clarence

Medium:

English



COURSE CONTENTS:

MODULE 1: FUNDAMENTALS OF STATISTICS

- Relationship between SPC and Quality system or TQM
- Understanding gauges and measuring equipment
- Special and common causes of variation
- Benefits of SPC for Supervisors, Line Leaders and operations

MODULE 2: NATURE OF VARIATION AND CONTROL CHART

- Measurement analysis
- Constructing variable control charts
- The means and the range charts
- Concept on linearity, stability, accuracy and precision
- Gauge repeatability and reproducibility study
- Centre-line
- Control limits

MODULE 3: IDENTIFY CONTROL CHART PATTERN

- Preventive control
- A process in control
- A run and short runs
- A cycle
- Trends

MODULE 4: HANDLING OF QUALITY DATA

- Recording of data
- Preparing data for analysis
- Use of statistical tools

- Analysis of result

MODULE 5: CONSTRUCTION OF CONTROL CHARTS

- For Variables – X & R charts, X & S charts, Median charts, cusum charts
- For attributes – p chart, np charts, c charts, u charts

MODULE 6: INTERPRETING CONTROL CHART PATTERNS

- One point outside control limit
- Sudden shift in the process average
- Hugging the centre line
- Hugging the control limit
- Cycle
- Trends
- Instability

MODULE 7: PROCESS IMPROVEMENT

- Problem solving techniques
- Common disturbances
- Special disturbances

MODULE 8: PROCESS CAPABILITY

- Planning, conducting experiment/study
- Capability index
- Process definition and machine characterization
- Machine capability study- short term and long term study
- Process in control, but not capable
- Process capable, but not in control

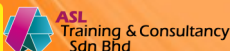
Who Should Attend?

Those who wish to explore how SPC techniques can be used in their own environment

- Product managers and team leaders
- Quality engineers, process engineers and technicians
- Staff concerned with controlling manufacturing processes

Program Schedule :

Registration :	8.30am
Morning session :	9.00am - 10.30am
Morning Tea :	10.30am - 10.45am
Lunch :	1.00pm - 2.00pm
Afternoon session :	2.00pm - 3.30pm
Afternoon Tea :	3.30pm - 3.45pm
End :	5.00pm



COURSE LEADER



JOSEPH CLARENCE A/L EMMANUAL MICHAEL B.Eng

Joseph is a professional technical training consultant and specialises in Developing Effective Training Need Analysis for Technical & Non Technical Personnel, Critical Problem Solving & Trouble Shooting, Developing Improvement and Value Added Solutions, Development & Managing Technical People, Train The Technical Trainer, Train the trainer for OJT Purposes, TQM/TPM Practices, Product & Performance Measurement Assessment and Management Development Program (Stress, Time, Change & Operation Mgt).

He has attained a Bachelors in Engineering with honours from the Queens University of Belfast, United Kingdom and Masters in Engineering majoring in Failure Assessment & Analysis (Man, Machine, Measurements, Methods, Material & Safety) from the University of Malaya, Malaysia. To benchmark his knowledge, Joseph

has obtained a competent certification in training under PSMB (Train the Trainer – Certificate No: TTT/0044), a Competency Based Training Needs Analysis from EMC and Safety, Health and Environment (SHE) Certification for SAE, Singapore.

Joseph has built and conducted approximately 50 programs and is passionate to train and build a professionally firm platform for technologists and executives. He has trained personnel from numerous companies including IRIS Technologies, Atos Securities, Ranhill Worley Parsons, Dunlop Malaysia, Sirim Bhd, Rubberflex Bhd, Mardec S/B, Mattel (KL) S/B, Fujitsu Component (M) S/B, Penang Port S/B, Intel Technology S/B, Perwaja Steel S/B, Petronas Gas Processing Plant S/B, Petronas Refineries S/B, Unisem (M) S/B, PKNM, Perusahaan Otomobil NSL S/B, Sony TV Industries S/B, RJ Renolds Tobacco Co. S/B and TNB Resources S/B. Joseph has various innovative courses specially designed in English and Bahasa Malaysia to meet industrial goals.

Joseph has had a long career in Training & Development since 1994 and has

- provided technical training for personnel from of approximately 25 multi-national and 800 local companies.

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Registration Form

STATISTICAL PROCESS CONTROL

Date : Refer to WEBSITE | Venue:

PLEASE COMPLETE THIS FORM AND EMAIL / FAX TO US EMAIL :

icare@asl-solutions.com ; shafi@asl-solutions.com

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DL : _____ HP: _____

Email: _____

Name : _____

Position: _____ Dept: _____

DL : _____ HP: _____

Company Name: _____

Address _____

City: _____ Postcode: _____

Tel : _____ Fax: _____

Co. ID: _____ GST No: _____

**If you have a Certificate of GST Relief (CoGSTR), please attach along with this form.*

(Authorization (Signatory must be authorized on behalf of the company)

Name: _____

Position: _____ Department : _____

DL: _____ Email : _____

Signature: _____ Date: _____

This booking is invalid without a signature & company stamp.

TERMS & CONDITIONS:

1. Workshop Fee is not inclusive of accommodation and transportation

2. Fees are inclusive of program materials and refreshments.

3. Payment Terms - Following completion and return of the registration form, full payment is required within Ten (10) working days upon the issuance of invoice or a letter of undertaking(LOU) .Payment or LOU must be received prior to the conference/ training date. A receipt will be issued on payment. Due to limited conference/ training seats, we advise early registration to avoid disappointment.

4. **CLIENT'S CANCELLATION/SUBSTITUTION**

Client's cancellation must be received in writing by MAIL or FAX two (2) weeks prior to the event in. All bookings carry a 50% cancellation liability should the notice given is less than two(2) weeks. and 100% cancellation liability 7-days prior to the event Non-payment or non- attendance does not constitute cancellation. (*However, complete set of documentation will be sent to you. Substitutions are welcomed at any time. All cancellations of registration must be made in writing*)

5. If, for any unexpected circumstances or reasons that ASL Group decides to postpone this event, the client hereby indemnifies and holds ASL Group harmless from any cost incurred in by the client. The event fee's will be refunded,

ASL Group reserves the right to change the content without notice.

6. Copyright etc. - All Intellectual Property rights in all materials produced or distributed by group in connection with this event is expressly reserved and any unauthorized duplication, publication or distribution is strictly prohibited.

7. Important note: In the event that if ASL Group permanently cancels the event for any reason whatsoever, (Including, but not limited to any force majeure occurrence) and provided that the event is not postponed to a later date nor is merged with another event, the client shall receive a refund for the amount that the Client has paid to such permanently cancelled event.

8. All Payment should Be Made to :

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COMPANY STAMP

