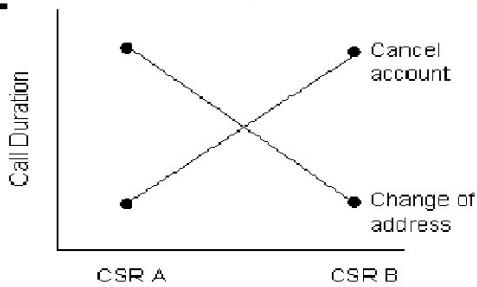


Design of Experiments (DOE)



(a) Only interaction, no main effect

Chapter 4: Six Sigma for Process and Quality Improvement

40

Public Training/Workshop#

DESIGN OF EXPERIMENT (DOE) FOR QUALITY IMPROVEMENT

"The Art Of Lifelong Learning"

INTRODUCTION

The importance of achieving world-class quality standards are increasingly becoming a primary concern as a business strategy.

Statistical Design of Experiment (DOE) is a proven technique that continues to show increasing use in these industries. As the R&D function comes under increasing pressure to produce fast and more accurate results, industrial researchers and engineers are turning to use this DOE tool to further improve quality and increase productivity.

Through experimentation, changes are intentionally introduced into this process or system in order to observe their effect on the performance characteristics or response of the system or process.

A statistical approach is the most efficient method for optimizing these changes. Using ad hoc or heuristic approach can and may be used; however the investigation becomes more efficient if it is with the same correct statistical tools. A clear definition of DOE is provided and its three primary objections are stated and carried through.

DATE:

Please Refer To Web

VENUE:

DURATION :

2 HARI (09:00am - 05:00pm)

TRAINER :

Joseph Clarence

MEDIUM :

English

METHODOLOGY

- Lecture with key points, coaching, interactive discussion
- Group dynamic and exercise to ensure participants grasp the topics presented.
- QC Role Play and Group Presentations
- QC Tools exercise and Industrial samples are used to stimulate actual nature of failure that has taken place.



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OBJECTIVE :

Participants will be able to understand the :

- Benefits of DOE
- Stages of investigation to undertake DOE practices.
- Principle of DOE and where should it be used.
- Terminology used in DOE practices

Participants will be able to determine :

- The variable (s) and their magnitude that influences the response.
- The levels of these variables.
- How to manipulate these variables to control the response.

KANDUNGAN KURSUS

DAY ONE

Morning

- **Introduction of the DOE Practices.**
 - ◆ DOE definition and understanding
 - ◆ Understanding the benefits of DOE
 - ◆ Understand the stages of investigation to undertake DOE practices
- **Tea Break**
- **Overview of the DOE Practices.**
 - ◆ Understand the principles of DOE and its uses
 - ◆ Understand the terminology used in DOE practices
 - ◆ Basic statistic and example
- **Lunch**
- **After Lunch**
Hypotheses Testing and the Decision Making Process
Probability of Error for Hypothesis Testing
 - ◆ Level of confidence and consequences of a wrong decision
 - ◆ Test and t Distribution definition
 - ◆ One-Sample Test
- **Tea Break**
 - ◆ Sample Examples
 - ◆ Explanation
- **End of Day 1**

DAY TWO

Morning

- **Morning**
 - ◆ Two-Sample Test
 - ◇ Example Problem
- **Tea Break**
 - ◆ Explanation
 - ◆ Testing of Hypotheses using ANOVA
- **Lunch**
- **After Lunch**
 - ◆ F Test
 - ◇ F Distribution
- **Tea Break**
 - ◆ General Formula
 - ◆ Sample Examples

End of program

Who Should Attend?

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

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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.
 - trained and developed programs for an entire workforce of 4000 people consisting management, executives and operations.

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Registration Form

DESIGN OF EXPERIMENT (DOE) FOR QUALITY IMPROVEMENT

Date : _____

Venue: _____

PLEASE COMPLETE THIS FORM AND EMAIL / FAX TO US EMAIL :
icare@asl-solutions.com ; amirul@aslpublishing.com
FAX : +603-5548 0024 ; TEL : +603-5542 0023 (Hunting Line)

PARTICIPATION FOR TWO DAYS WORKSHOP FEE :

Price ! : _____

Register Before : _____

Group Registration : _____

PARTICIPANT'S NAME :

Name : _____

Position: _____ Dept: _____

DL : _____ HP: _____

Email: _____

Name : _____

Position: _____ Dept: _____

DL : _____ HP: _____

Email: _____

Name : _____

Position: _____ Dept: _____

DL : _____ HP: _____

Email: _____

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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