



# Training on DOE with Minitab

## 應用 Minitab 進行試驗設計的培訓

### (#DOE-M1)

### Training Objectives 培訓目標

- To understand the basics of Design of Experiment (DOE) and relevant Terms  
瞭解試驗設計的基礎和術語
- To understand the DOE method and evaluation criteria  
瞭解試驗設計的方法和評價準則
- To understand the application of Minitab on DOE  
瞭解 Minitab 在試驗設計中的應用
- To develop expertise to improve design parameters via DOE  
發展利用試驗設計改善設計參數的技能
- To develop expertise to optimize process settings via DOE for performance excellence  
發展利用試驗設計優化運作過程設置以獲得出色產品或服務表現的技能

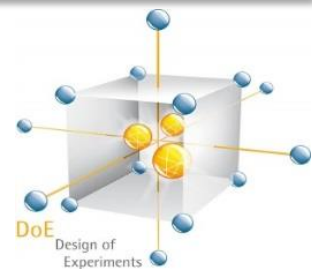
#### Note 注:

Understanding of statistics is not the intent of this course, due to time limitation.

由於時間關係，統計學的理解不是本課程的意圖。

### Recommended Prior Knowledge 建議的事先認知

- Experience in basic statistical concepts  
數據統計基本概念的相關經驗
- Problems in DOE process in own organization  
本組織的試驗設計過程中遇到的問題





## Suitable for 培訓對象

- Design or Manufacture engineers/technicians, product or service Engineers、Auditors, 6-Sigma Implementers, MR, Managers, Experts in design or quality related field.  
設計或製造工程師/技術員、產品或服務質量工程師、審核員、六西格瑪推行者、管理者代表、經理、設計或質量管理領域相關的專業人仕
- Persons seeking career opportunities in quality management field.  
尋找與質量管理領域相關的就業機會的人仕

**Keep learning.  
Be outstanding!**



## Training Approach 培訓形式

- Lecturing by tutor 講師面授
- Exercises (individual or by team) 練習 (個人或小組)
- Workshops 討論演練
- Materials and Lecturing in Chinese 培訓資料和授課語言為中文
- Tutor: Experienced Trainer with QMS Auditor Qualification  
講師：經驗豐富的具備品質管理體系審核員資格的培訓師





## Course Agenda 課程安排

1+ DAY 天

Day 日程	Items 項目	Evaluation 評估
DAY 1+	<ul style="list-style-type: none"><li>• Forewords 前言</li><li>• Basics and Terms of DOE 試驗設計的基礎和術語</li><li>• Full factorial experimental design 全因子試驗設計</li><li>• Partial factorial experimental design 部分因子試驗設計</li><li>• DOE with Minitab 應用 Minitab 進行試驗設計</li><li>• Regression equation 回歸方程</li><li>• Residual analysis 殘差分析</li><li>• Blocks and Center Points 分區和中心點</li><li>• Parameters optimization 參數優化</li><li>• Workshops 討論演練</li><li>• Q&amp;A 問答</li><li>• Evaluation 測評</li></ul>	Participation Required 要求參與



### Related Course 相關課程:

**DOE Advanced Training 試驗設計進階培訓**

**#DOE-M2R, 1.5 days 天**

Add in-depth discussions and application practice on the basis of above course #DOE-M1. 在上列課程 #DOE-M1 的基礎上增加深入討論和應用練習。

**#DOE-M2, 2 days 天**

Add exchanges on real cases provided by participants on the basis of Course #DOE-M2R. 在課程 #DOE-M2R 的基礎上增加學員提供的真實案例的交流討論。



## Evaluation and Certificate 評估和證書

### 1. Evaluation based on Participation 參與表現評估

- A Certificate of Attendance by DQS will be issued to the registered participants who have participated in the whole training course and completed all assignments, but have not been successful in passing the evaluation.

全程出席並完成課程任務，但未能通過測評的學員可獲得DQS頒發的培訓出席證書。

### 2. General Evaluation 綜合評估

- A Certificate of Successful Completion by DQS will be awarded to registered participants who have participated in the whole training course, completed all assignments, and passed the evaluation.

全程出席和完成課程任務，並通過測評的註冊學員可獲得DQS頒發的培訓完成證書。



## Contact Information 聯絡信息

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[Registration Form 報名表](#)