

# Measurement System Analysis Training

## 測量系統分析培訓

(#MSA-U1)

### Training Objectives 培訓目標

- To understand measurement system analysis requirements in IATF16949:2016  
瞭解 IATF16949:2016 中對測量系統分析的要求
- To understand the important analysis methods referenced in AIAG MSA Manual  
瞭解在 AIAG 測量系統分析手冊中引用的重要分析方法
- To understand the criteria for MSA method selection and evaluation  
瞭解測量系統分析方法的選擇和評價准則
- To understand the timing criteria for MSA  
瞭解進行測量系統分析的時機准則
- To understand the requirements for handling of measurement systems with unsatisfactory MSA results  
瞭解發現測量系統分析結果不理想後的處理要求
- To develop the basic expertise to implement a MSA management process  
發展實施測量系統分析管理過程的基本技能
- Due to the time constraint, discussion of MSA for destructive measurement is NOT included in this course.  
由於時間限制，破壞性測試的測量系統分析的講解不包括在本課程中

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

- Experience in measurement system analysis or SPC related field  
測量系統分析或統計過程控制相關經驗
- Problems in the implementation of MSA process in own organization  
本組織的測量系統分析管理過程中遇到的問題



## Suitable for 培訓對象

- MSA engineers/technicians, QMS Engineers/Auditors, ISO/TS 16949 or IATF 16949 Implementers, MR, Managers, Process Engineers, Experts in quality related field.  
測量系統分析工程師/技術員、質量工程師/審核員、ISO/TS 16949 或 IATF 16949 推行者、管理者代表、經理、質量管理領域相關的專業人仕
- Persons seeking career opportunities in QMS or certification field.  
尋找與質量管理領域 / 認證機構相關的就業機會的人仕

*Keep learning.  
Be outstanding!*



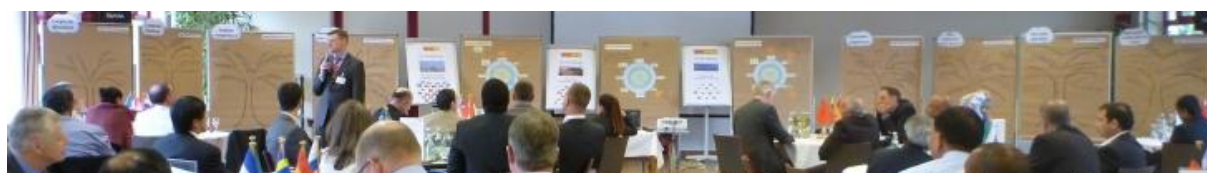
## Training Approach 培訓形式

- Lecturing by tutor 講師面授
- Exercises (individual or by team) 練習 (個人或小組)
- Workshops 討論演練
- Lecturing in Chinese with some materials in English  
授課語言為中文，配備部分的英文資料
- Tutor: Experienced Trainer with Auditor Qualification  
講師：經驗豐富的具備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
<b>DAY 1</b>	<ul style="list-style-type: none"> <li>• Forewords 前言</li> <li>• Basics of Measurement and relevant Terms 測量的基礎和術語</li> <li>• Variations in Measurement Systems 測量系統中對變異的考慮</li> <li>• Criteria for MSA Methods Selection and Evaluation 測量系統分析方法選擇和評價準則</li> <li>• Timing for MSA 測量系統分析的時機</li> <li>• Handling of Unsatisfactory MSA Results 不滿意的處理系統分析結果的處理</li> <li>• Common Faults in MSA Management 測量系統分析管理中的常見問題</li> <li>• Skills for MSA responsible Personnel 測量系統分析人員的技能要求</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:****MSA Advanced Training 測量系統分析進階培訓****#MSA-U2R, 1.5 days 天**

Add in-depth discussions and application practice on the basis of above course #MSA-U1.  
 在上列課程 #MSA-U1 的基礎上增加深入討論和應用練習。

**# MSA-U2, 2 days 天**

Add exchanges on real cases provided by participants on the basis of Course #MSA-U2R.  
 在課程 #MSA-U2R 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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