



ISO 26262 Automotive Functional Safety & ASPICE Understanding Training

汽車功能安全標準和汽車軟件開發管理過程標準理解培訓

(#AFS+ASP-U4)

Training Objectives 培訓目標

- To understand the development of ISO 26262:2011 & ASPICE standards
瞭解 ISO 26262:2011 & ASPICE 標準的發展
- To have understanding about ISO 26262:2011 & ASPICE standard requirements
瞭解 ISO 26262:2011 & ASPICE 的標準要求
- To develop the needed expertise to implement an Automotive Functional Safety Management process and according to ISO 26262:2011
發展依據 ISO 26262:2011 實施汽車功能安全管理過程所需的基礎技能
- To develop the needed expertise to implement an Automotive Software Development Management Process according to ASPICE
發展依據 ASPICE 實施汽車軟件開發管理過程所需的基礎技能
- To develop the knowledge to conduct internal audits based on ISO 26262:2011 & ASPICE
發展根據 ISO 26262:2011 & ASPICE 標準要求進行內部審核所需基礎知識

Recommended Prior Knowledge 建議的事先認知

- Experience in automotive functional safety and software development
汽車功能安全和軟件開發管理經驗
- Problems in the implementation of automotive functional safety and software development in own organization
本身組織的汽車功能安全和軟件開發過程管理中遇到的問題





Suitable for 培訓對象

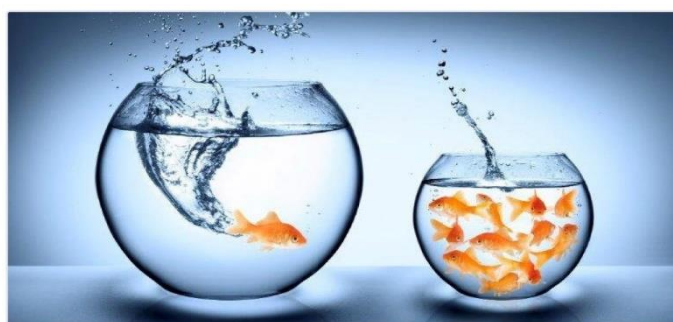
- Automotive product design engineers, software development engineers, project engineers/managers, QMS Auditors, Managers, Experts and Consultants in automotive functional safety or software development management related field.

汽車產品開發工程師、軟件工程師、項目工程師/經理、製造工程師、質量管理體系審核員、管理層、汽車功能安全管理或軟件開發管理領域相關的專業人仕、顧問

- Persons seeking career opportunities in QMS field /Certification Bodies.

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)
- Unless otherwise specified, lecturing and training materials in English
除非另文指定，授課語言為英文，培訓資料為英文
- Tutor: Trainer with experience in automotive functional safety and software development
講師：具備汽車功能安全管理和軟件開發管理經驗的資深培訓師





Course Agenda 課程安排

4 days recommended

Day 日程	Items 項目	Evaluation 評估
Unit 1	<p>Unit 1 - ASPICE</p> <p>Part 1 – Introduction to Automotive SPICE</p> <ul style="list-style-type: none">• Automotive SPICE – scope and purpose• Automotive SPICE as an software suppliers qualification mechanism• Automotive SPICE main concepts:<ul style="list-style-type: none">○ Process Assessment Model (PAM)○ Process Reference Model (PRM)○ Automotive SPICE rating mechanism <p>Part 2 – Automotive SPICE in practice</p> <ul style="list-style-type: none">• Benefits from embracing Automotive SPICE<ul style="list-style-type: none">○ Business value and international supplier benchmarking○ Process Improvement• Impact of Automotive SPICE on the Organization<ul style="list-style-type: none">○ Roadmap of Automotive SPICE initiative<ul style="list-style-type: none">▪ Time and costs▪ Staff and skill needs○ Tool support needs○ Management commitment• Automotive SPICE Assessment<ul style="list-style-type: none">○ Preparation○ Execution <p>Part 3 – Automotive SPICE contents</p> <ul style="list-style-type: none">• Overview of Automotive SPICE Processes<ul style="list-style-type: none">○ Reference scopes adopted by the market• Automotive SPICE 2.5 vs. Automotive SPICE 3.0• Performance and Capability Indicators• Practical interpretation of Automotive SPICE Capability Levels <p>Part 4 – Case studies and examples</p> <ul style="list-style-type: none">• Presentation of examples from real projects• Tips and hints <p>Q&A</p>	Participation Required 要求參與



Day 日程	Items 項目	Evaluation 評估
Unit 2	<p data-bbox="316 353 1062 394">Unit 2 – ISO 26262:2011 Functional Safety</p> <p data-bbox="316 430 791 461">Part 1 – Introduction to ISO 26262</p> <ul data-bbox="363 497 839 631" style="list-style-type: none">• ISO 26262 – scope and purpose• ISO 26262 main concepts:<ul style="list-style-type: none">○ Vocabulary○ Approach <p data-bbox="316 636 730 667">Part 2 – ISO 26262 in practice</p> <ul data-bbox="363 703 1126 1240" style="list-style-type: none">• Benefits from embracing ISO 26262<ul style="list-style-type: none">○ Market perspective○ Technical Perspective• Impact of ISO 26262 on the Organization<ul style="list-style-type: none">○ Roadmap of ISO 26262 initiative<ul style="list-style-type: none">▪ Timeline▪ Costs▪ Staff and skill needs▪ Legal○ Tool support needs○ Management commitment• ISO 26262 Key Point<ul style="list-style-type: none">○ Risk analysis and the functional safety concept○ Technical safety concept and system design○ Effectiveness of safety mechanisms○ Notes on functional safety analysis <p data-bbox="316 1276 855 1308">Part 3 – Safety-oriented developments</p> <ul data-bbox="363 1344 1062 1653" style="list-style-type: none">• Hardware development<ul style="list-style-type: none">○ Notes on functional safety analysis on HW (e.g. FMEDA)• Hardware testing• Software-intensive development<ul style="list-style-type: none">○ Notes on software safety design• Software testing• Notes on safety-related aspects of production and operations <p data-bbox="316 1720 820 1751">Part 4 – Case studies and examples</p> <ul data-bbox="363 1787 983 1854" style="list-style-type: none">• Presentation of examples from real projects• Tips and hints <p data-bbox="316 1890 386 1921">Q&A</p>	Participation Required 要求參與



Note 注:

The course subjects and days can be adjusted according to client request.
課程內容和天數可以根據客戶要求作適當調整。

Related Courses 相關課程:

Course #ASP-U3, the course scope is limited to **SPICE** for 3 days.

Course #AFS-U3, the course scope is limited to **ISO 26262** for 3 days.

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 participant who has participated in the whole training course.

全程出席並完成課程任務，但未能通過考試的學員可獲得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 participant who has participated in the whole training course, completed all assignments, and passed the overall performance evaluation during training course.

全程出席和完成課程任務，並通過綜合課堂表現評估的註冊學員可獲得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](#)