

Course code: S1603

# SAE/USCAR 21

## PERFORMANCE SPECIFICATION FOR

### CABLE-TO-TERMINAL

### ELECTRICAL CRIMPS

SAE/USCAR 21 is a specific requirements for test methods and requirements for the verification of solderless wave connections. The purpose of this test is to simulate in the lab the stress seen in a typical life (15 years and 150000 miles) for a crimp connection and assure the crimp is mechanically strong and electrically stable. This specification was developed for use with stranded automotive copper wire. The standard is applied to demonstrate the ability to consistently manage operation that meet regulatory requirements. This course helps aspiring participants to understand how SAE/USCAR 21 helps to continually improve organisational operation system using its best practice. Participants learn the details of each clauses of the standard requirement to be able to apply within their organization.

#### OBJECTIVE

- To describe the concept overview of the SAE/USCAR 21 requirement.
- To provide knowledge on specific standard and describe how Risk-Based Thinking is applied in SAE/USCAR 21.
- To explain the importance of customer-specific requirements in the operation system.
- To build awareness in quality and encourage continual improvement within organization.

#### CONTENT



- **Session 1: Introduction**

Describe operation approach and how to use process mapping to understand a process. Identify which elements impact process performance and determine measures that can be used to monitor and improve the performance of the process.

- **Session 2: Terms and Definitions**

Describe relevant terms and definitions that normally use in the quality system.



- **Session 3: Risk-based thinking and tools of Related Standards**

Describe quality concept is implemented in conjunction with operation system. Explain risk-based thinking fosters a proactive culture of prevention and improvement

- **Session 4: Interpretation of standard requirement**

Describe the SAE/USCAR 21 requirement clause by clause that implemented in conjunction with operation system. Explain concept and awareness to improve effectiveness of the quality system.



- **Session 5: Conclusion**

Conclude requirement and explain step to implement the system.

\*Exercise workshop will also be delivered in each key sessions\*

#### PREREQUISITES

Basic knowledge in quality is optional. Experience in any industry will be more benefit.

