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## Version Control

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## 1.1. Revision History

Date	Version	Who	Changes made
2025-10-12	0.1	Th. Sievers	Initial version, ready for review
2025-10-13	0.2	Chr. Huebscher	Review
2025-10-14	1.0	L. Dittmann	Released

### Data Management SPICE Expert Training

#### Model - Based Process Assessment and Improvement

Learn how to systematically assess, structure, and enhance your data management processes using the **Data Management SPICE** model. This seminar provides a practical introduction to SPICE-based process improvement and assessments, guiding participants through basic concepts, processes, and their good practices for achieving higher data management maturity and consistent data quality.

#### Objective

The objective of this training is to enable participants to understand and apply the principles of the **Data Management SPICE** model for evaluating and improving data management processes. Participants will learn how to scope and prepare for assessments, identify process capability levels, and define targeted improvement actions to enhance data governance, data quality, and data capabilities of the organizational unit.

By the end of the seminar, participants will be able to:

- **Understand the structure and intent** of Data Management SPICE, including its process categories, base practices, and capability levels.
- **Prepare for process assessments** to identify strengths, weaknesses, and capability levels of existing data management activities.
- **Interpret assessment results** to derive actionable improvement measures that align with organizational goals and compliance requirements.
- **Establish and optimize data management processes** covering areas such as data governance, data quality, data flow, and operational data processes.
- **Integrate Data Management SPICE** with related frameworks (e.g., ISO/IEC 330xx, Automotive SPICE®, or IT service management models) to ensure consistency and synergy across organizational processes.
- **Promote a culture of continuous improvement** in data management by using governance and good data management principles as a foundation for sustainable process evolution and measurable business impact.

#### Content

This training provides a comprehensive overview of the **Data Management SPICE** model, focusing on its process groups and their application in real-world data management environments. Participants will gain a deeper understanding of the structure, intent, and practical use of the model practices to support effective data management, data quality, and operational excellence.

### Data Management Process Group (MGD)

#### MGD.1 – Data Management Scope and Business Case

Process Scope: This process defines the purpose, scope, and justification for data management within the organization. It establishes the sound foundation for data-related activities by deriving objectives and scope from business needs and ensuring stakeholder alignment.

## Seminar Description - Data Management SPICE

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Learn how to scope of data management activities and establish a clear business case that aligns data initiatives with organizational goals. Practices cover stakeholder identification, justification of data investments, and the creation of a governance foundation that supports long-term value realization.

### **MGD.2 – Requirements for Data Management and Data Quality**

Process Scope: This process focuses on identifying, specifying, and maintaining requirements related to data management and data quality. It ensures that data meets business, regulatory, and operational needs across its lifecycle.

Explore methods to identify, document, and manage requirements for data management and data quality, e.g., using operational concepts and scenarios. Participants will learn how to translate business and regulatory needs into measurable data requirements and quality criteria, ensuring that data assets meet the intended purpose and regulatory standards.

### **MGD.3 – Data Management System and Data Flow**

Process Scope: This process defines and maintains the technical concept and structure of the data management system, including data sourcing, data flow and data stewardship. It ensures that mechanisms for data extraction, transformation, and loading (ETL) are addressed.

Understand how to create a sound concept for the data management system. The focus is on defining understanding the flow of the data, its changes in ownership, and criteria for data quality. Hence, enabling traceability and transparency across the data lifecycle.

## **Data Operations Process Group (DOP)**

### **DOP.1 – Data Integration and Deployment**

Process Scope: This process governs the integration, deployment, and validation of data before actual data operations. It ensures that integrated data is complete, accurate, and consistent with defined requirements and quality criteria before being used in production.

Gain insights into planning and executing data integration activities, from source systems to operational environments. This section emphasizes deployment strategies, validation of integrated data, and alignment with technical and business requirements to ensure seamless and secure data transitions.

### **DOP.2 – Data Operation and Optimization**

Process Scope: This process manages the operational use of data, ensuring that data fulfills its intended purpose. It includes monitoring, maintenance, and continuous improvement of data quality during operations.

Learn how to operate and continuously improve data throughout operations. Topics include performance monitoring of the data management system, the data quality, and optimization.

**Summary:** Through a mix of theoretical foundations, good practice examples, and interactive discussions, participants will develop the capability to understand and continuously improve their organization's data management using the **Data Management SPICE** model.

## **Target Audience**

## Seminar Description - Data Management SPICE

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This training is designed for professionals responsible for defining, assessing, or improving data management processes within their organizations. It is particularly suited for:

- **Data Management and Governance Leaders** seeking to establish a structured and measurable approach to data management.
- **Process and Quality Managers** involved in model-based assessments, process capability evaluations, or SPICE-based process improvement initiatives.
- **Data Architects and Data Engineers** who design and maintain data systems, data flows, and integration structures aligned with organizational requirements.
- **Project Managers and Compliance Officers** responsible for ensuring that data-related activities meet business objectives, regulatory requirements, and quality standards.
- **Consultants and Assessors** working with data management frameworks or preparing organizations for process assessments based on SPICE or related standards.

### Duration

3 days including the examination

### Preconditions

Participants should have a basic understanding of data management concepts or process improvement methodologies; prior experience with SPICE or ISO/IEC 330xx frameworks is beneficial but not required.

### Constraints

Maximum of 12 participants per training.

### Exam

Passing the exam is a prerequisite for participation in the ECQA certification process.

Existing competent assessors in Automotive SPICE can use this class to expand their domain knowledge to data management.