

Academy

COURSE CATALOG

SAP DM

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Table of Content

FORCAM Academy 3

 ABOUT US.....4

 COURSE CATALOG HANDLING2

SAP DM Digital Manufacturing 3

 SAP DM – Courses overview.....4

 SAP DM - BASIC ADMIN.....5

 SAP DM – Starter Course.....6

 SAP DM – Shop Floor Integration.....7

 SAP DM – Enterprise Integration.....8

 SAP DM – Insights and Reporting.....9

 SAP DM – Advanced Course.....10

 SAP DM – Resource Orchestration11

Continuous Improvement Workshops (CIP)12

 Continuous Improvement Workshops (CIP)13

 CIP-day1 – Continuous Improvement Initialization Day.....14

 CIP-EST – Continuous Improvement Establishment.....15

 CIP-LEAN – Real Data Plus Leading LEAN Consulting.....16

AC4DC Asset Connectivity 4 Data Collection17

 AC4DC Basic Admin.....18

FORCAM Academy

ABOUT US

OUR VISION

FORCAM Academy builds bridges between people and systems by translating hidden and technical information into knowledge that can be understood and used by the requesting target group.

OUR MISSION

FORCAM Academy provides customers with specific knowledge to enhance and maximize their efforts in transforming to World Class Shop Floor Management

- FORCAM Academy delivers well-structured information to provide knowledge gain for internals, partners and customers.

- We provide worldwide transparency and availability of course material for all stakeholders using innovative digital collaboration solutions.

- We use multiple instructional methods to distribute course contents that fit to the recipient's needs and requirements.

- We support customer satisfaction and partner relationship with high quality courses.

OUR STRATEGY

FORCAM Academy is a key pillar to enhance FORCAM customer satisfaction as well as partner relationships. That is why FORCAM Academy offers standardized course structure to every stakeholder.

■ Customer

We want our customers to use our products as successfully as possible. Therefore, FORCAM Academy offers both – product specific Courses and process and generic shop floor management Courses. To reach this common target FORCAM Academy offers several possibilities to get trained in a face-to-face Course or in some sessions a self-paced online training.

■ Partner

FORCAM partners are as important as our own employees. Our partners support us as multipliers, with project management and project implementation. FORCAM Academy ensures the continuous delivery of partner qualifications and competencies by delivering role-based information.

■ Employees

As we train our customers and partners we provide this offer to our employees as well. We want our employees to be a competent partner to our customers.

OUR DELIVERY CONCEPT

FORCAM Academy aims to make course participants more than just satisfied. Focusing on a standardized and scenario-based course delivery we offer several opportunities and approaches to gain and improve your knowledge about FORCAM products:

- Blended-Learning approach focusing on an interconnectivity of e-Learning and face-to-face classroom courses based on a modular FORCAM approach.
- We offer standardized course content delivery and quality all over the world
- Open courses with room and time for collaboration with participants

COURSE CATALOG HANDLING

Intention

The following list of Courses covers the Course topics offered by FORCAM Academy based on sustainable knowledge delivery and innovative learning methods.

FORCAM Academy accommodates various learning environments and methods, participants can decide which courses are necessary and delivery approach depending on how they learn best. The FORCAM Academy provides a variety of training approaches including trainer guided learning, individualized self-paced e-learning and remote webinar sessions.

Nomenclature and Structure

Courses are structured in two skill categories: BASIC and ADVANCED. These categories are used to outline the courses on the basis of the delivered content (learning targets).

Contact

E-Mail: academy@forcam-ensico.net

Course Dates & Locations

Course dates and locations can be found on the FORCAM Academy webpage (<http://academy.forcam.com>).

Pricing

Prices are listed in US\$/EUR. The currency relates to the delivery region. Euro pricing relates to Europe up to Russia, Middle East, Africa. US\$ apply Canada, US, South America.

Validity

Older versions of the catalog expire with a newer version.

SAP DM

Digital Manufacturing

SAP DM – Courses overview

SAP DM introduces a completely new concept of manufacturing execution software. While it supports a wide range of production use cases the cloud concept drives a completely new way of selecting and implementing new functionality. Our courses are targeted at guiding our customers through the demanding architecture and help them to understand and select the functionality that provides the highest value for their organization.



SAP DM - BASIC ADMIN

Course Identifier:	SAPDM-STC
Duration:	4 days
Language:	German/English

Content Overview

You are in the start phase of a SAP DM implementation project. You need to understand what your implementation partner tells you. It is important for you to understand his suggestions and with a good understanding of SAP DM options and dependencies you can participate successfully in the use case definitions.

This course includes practical exercises around workplaces, orders and execution of such at a terminal. It also introduces the integration of SAP Business Suite Integration, Insights and reporting as well as machine data technology and use cases. For an intense learning experience enriched with interactive exercises we recommend the personal presentation in the classroom.

Main Topics

- Value of MES
- SAP DM Architecture
- Roles and rights
- General product overview
- Master Data Management (work centers, resources, routings, orders, execution)
- Overview of Dispatching and Monitoring
- Basics of data capturing (Track&Trace)
- Introduction to standard status and history views and Insights incl. requirements for OEE reporting.
- Understanding of machine (asset) connectivity technically and use case oriented

Available Delivery Design

- Onsite (exclusive customer course)
- In FEG locations
- Remote delivery

Target Group

- Key users
- Project lead
- Manufacturing IT
- Application Support

Prerequisites

- Understanding production
- Basic IT Skills

Prices

Per person	3600 US\$/EUR
Dedicated event (FEG location, 6 persons)	12000 US\$/EUR
Additional person per event (max 4 additional)	1800 US\$/EUR
<i>For other locations additional cost might apply</i>	

SAP DM – Starter Course

Course Identifier:	SAPDM-STC
Duration:	2 days
Language:	German/English

Content Overview

Gain hands-on experience with SAP DM in this comprehensive course, where you'll explore key modules and follow a practical, real-world workflows from component creation to order processing and quality assurance.

For a more complete understanding of the solution we recommend the BASIC ADMIN course that covers additional topics like ERP integration, Insights and reporting as well as machine data connection and use cases.

For an intense learning experience enriched with interactive exercises we recommend the personal presentation in the classroom.

Main Topics

- Value of MES
- SAP DM Architecture
- Roles and rights
- General product overview
- Master Data Management (work centers, resources, routings, orders, execution)
- Quick intro to Dispatching and Monitoring
- Quick intro data capturing

Available Delivery Design

- Onsite (exclusive customer course)
- In FEG locations
- Remote delivery

Target Group

- Key users
- Manufacturing IT
- Application Support

Prerequisites

- Understanding production
- Basic IT Skills

Prices

Per person	1800 US\$/EUR
Dedicated event (FEG location, 6 persons)	6000 US\$/EUR
Additional person per event (max 4 additional)	900 US\$/EUR
<i>For other locations additional cost might apply</i>	

SAP DM – Shop Floor Integration

Course Identifier:	SAPDM-SFI
Duration:	2 days
Language:	German/English

Content Overview

This course starts with the technical requirements and dependencies to make signals available to SAP DM. Based on this signals SAP DM provides a powerful set of tools to implement complex use cases. The course includes practical exercises and the review of important sample use cases. We do a short introduction of our machine connectivity extension to SAP DM (AC4DC) that expands the range of applicable protocols and simplifies machine data handling.

Main Topics

- Value of asset connectivity in combination with MES
- General IOT Concepts and architecture
- SAP Production Connector
- Modeling automated production processes
- Connecting Systems by Service Calls on Shop Floor
- Connecting SAP DM to a 3rd party asset data model (e.g. AC4DC)
- Use cases based on asset connectivity

Available Delivery Design

- Onsite (exclusive customer course)
- In FEG locations
- Remote delivery

Target Group

- Manufacturing IT
- Application Support

Prerequisites

- Basic knowledge of MES and production
- SAPDM Starter course advantageous

Prices

Per person	1800 US\$/EUR
Dedicated event (FEG location, 6 persons)	6000 US\$/EUR
Additional person per event (max 4 additional)	900 US\$/EUR
<i>For other locations additional cost might apply</i>	

SAP DM – Enterprise Integration

Course Identifier: SAPDM-EIN
Duration: 2 days
Language: German/English

Content Overview

Major strategy of SAP DM is the neatless integration into the SAP Business Suite. The course starts with the technical options and dependencies. Beside the basic data objects that exchange master data and status you will learn about the workflows that secures a consistent data model between ERP and production.

Main Topics

- Value of integration (Enterprise, warehouse and logistic)
- Introduction to Cloud Integration functionalities
- Enterprise Integration (ERP) for execution. Understand the necessary master data and get to know the dependencies
- Embedded Warehouse Management(EWM) Integration. Understand the out of the box integration to setup a powerful production logistic management
- Integration of Quality Management(QM), understand the system-supported data acquisition in production with the help of dedicated use cases
- Integration of Human Resources (Success Factors), learn about the possible data exchange options based on HR data

Available Delivery Design

- Onsite (exclusive customer course)
- In FEG locations
- Remote delivery

Target Group

- Basis IT
- Application Support and Administration

Prerequisites

- Basic ERP knowledge
- SAPDM Starter course advantageous
- Basis cloud connectivity knowledge

Prices

Per person	1800 US\$/EUR
Dedicated event (FEG location, 6 persons)	6000 US\$/EUR
Additional person per event (max 4 additional)	900 US\$/EUR
<i>For other locations additional cost might apply</i>	

SAP DM – Insights and Reporting

Course Identifier: SAPDM-IAR
Duration: 1,5 days
Language: German/English

Content Overview

With the real time collection of various execution tasks, parameters and conditions SAP DM collects a vast amount of data that builds the foundation of a powerful reporting. This course introduces the key data sources (Manufacturing Data Objects (MDOS), built in reports. Prebuild manufacturing reports based on our long production experience.

Main Topics

- Value of KPIs, dashboards, live monitoring
- General Insights Functions, holistic analytics from Shop Floor to Top Floor
- Data sources for reporting
- Modelling of individual reports
- Creation of live dashboards
- Prebuild manufacturing reports to speed up ROI

Available Delivery Design

- Onsite (exclusive customer course)
- In FEG locations
- Remote delivery

Target Group

- Manufacturing IT
- Production personnel with technical background, business user

Prerequisites

- Basic knowledge of MES and production
- SAPDM Starter course advantageous

Prices

Per person	1350 US\$/EUR
Dedicated event (FEG location, 6 persons)	4500 US\$/EUR
Additional person per event (max 4 additional)	675 US\$/EUR

For other locations additional cost might apply

SAP DM – Advanced Course

Course Identifier: SAPDM-ADV
Duration: 2 days
Language: German/English

Content Overview

You want to implement more complex use cases by yourself. You need more than the standard provided. This course provides technical details about variables, complex integration scenarios or the design of custom apps for operator dashboards(terminals).

Main Topics

- Options and capabilities to customize SAP DM based on customers’ production processes.
- Process modeling with Production Process Designer allows customizing actions triggered by manual or automated actions.
- The Production Operating Dashboard (POD) Designer allows customizing of user interfaces at the shop floor level.
- Concepts of integrating own applications or services by using transformation flows (iFlow).

Available Delivery Design

- Onsite (exclusive customer course)
- In FEG locations
- Remote delivery

Target Group

- Application administration
- Inhouse consulting
- Manufacturing support, IT
- Production personnel with technical background

Prerequisites

- SAPDM-STC – Starter Course
- Basic knowledge of MES and production
- SAPDM-SFI - Shopfloor integration , SAPDM-EIN - ERP Integration

Prices

Per person	1800 US\$/EUR
Dedicated event (FEG location, 6 persons)	6000 US\$/EUR
Additional person per event (max 4 additional)	900 US\$/EUR

For other locations additional cost might apply

SAP DM – Resource Orchestration

Course Identifier: SAPDM-REO
Duration: 1 day
Language: German/English

Content Overview

SAP DM Resource Orchestration provides the option for short-term detailed order/operation scheduling. This course introduces the basic concepts for REO and enables the user to adjust rules and constraints in order to receive a reasonable, valuable and executable plan.

Main Topics

- Basic REO concepts
- Understanding master and transactional data
- Scheduling Constraints
- Scheduling Rules
- Validate and activate the new schedule
- Review updates of ERP and operator data based on new schedules

Available Delivery Design

- Onsite (exclusive customer course)
- In FEG locations
- Remote delivery

Target Group

- Scheduling experts
- Production supervisors

Prerequisites

- SAP DM – Starter Course (recommended)
- Scheduling process know how

Prices

Per person	900 US\$/EUR
Dedicated event (FEG location, 6 persons)	3000 US\$/EUR
Additional person per event (max 4 additional)	450 US\$/EUR

For other locations additional cost might apply

***Continuous
Improvement
Workshops (CIP)***

Continuous Improvement Workshops (CIP)

Beside technology the real driver for improvements within the production environment are the people and the processes. Turn real data into real value is the objective of the CIP Workshops. Those workshops are done onsite at your premise with involvement of all levels and functions applicable.

CIP – INI
CIP Initialization Day
(1 day)

Get all levels and production relevant functions aligned to the objectives of the project and motivate the team to support and use the system to increase productivity, workplace security and competitiveness.

CIP – EST
CIP Establishment
(2 days)

Ensure the data within the reports is understood and utilized at all levels. Retrain the teams where needed. Review improvement activities triggered by meaningful data and analysis the effects in the reports.

CIP – LEAN
[Real Data Plus](#)
[Leading LEAN Consulting](#)

Our partner companies are the leading players for the implementation of effective shop floor management communication and processes. This session combines data with people and processes.

CIP-day1 – Continuous Improvement Initialization Day

Course Identifier	Duration	Language
CIP-INI	1 Day (onsite)	German / English

Content Overview

The power of MES comes into play if the organization makes efficient use of the meaningful data provided by the system. The main objectives are to achieve acceptance by the shop floor personnel and in depth understanding of reports and their value for all others in the team. Mapping of data into responsibilities and mapping to support fast and efficient decision making is key. Identify first potential for improvement, ensure responsibility and initiate improvements. Discuss KPIs, their meaning, value and limitations.

Main Topics

- Validation of reports before the workshop
- Join the multi level daily/weekly decision meetings
- Validate first reports
- Validate stoppage reasons
- Data to meeting/responsibility mapping
- Gain shop floor level acceptance
- Involve work council
- Position reports and understand their value and target audience
- Empower production responsible personnel with meaningful data
- Discuss and decide on KPIs
- Identify relevant data for top the management
- Trigger first CIP activities

Available Delivery Design

- Leader led workshop (onsite)

Target Group

- Complete project team
- Lean team
- Production planner and responsible management
- Shop Floor personnel (important)
- Partially top management

Prerequisites

- SAP DM active in production, first reports available

Prices

2 days total	4500 US\$/EUR
1 day onsite,	
1 day planning, pre data check, follow up	
Location onsite, individual time slot	
(no public schedule; plus expenses)	

CIP-EST – Continuous Improvement Establishment

Course Identifier	Duration	Language
CIP-EST	2 * 1 Day (around 4-8 weeks in between)	German/English

Content Overview

This is the follow up of the CIP Starter day. Ensure the meaning and power of the introduced reports is taken on board and utilized in daily/weekly sessions. Retrain personnel how to read and use the reports to identify the real issues. Ensure the linkage of the meaningful data into the organization. Review first result and encourage where needed.

Main Topics

- Review CIP process
- Review stoppage reasons
- 1:1 sessions with users at all levels
- Retrain and introduce new reports
- Analyze first success and discuss rollout into other units
- Ensure functional communication around meaningful data

Available Delivery Design

- Leader led workshop (onsite)

Target Group

- Complete project team
- Lean team
- Production planner and responsible management
- Shop Floor personnel (important)
- Partially top management

Prerequisites

- **CIP-day1 Continuous Improvement Starter Day**

Prices

Workshop delivered onsite	3600 US\$/EUR
Location onsite, individual time slot (no public schedule; plus expenses)	

CIP-LEAN – Real Data Plus Leading LEAN Consulting

Course Identifier

CIP-STA

Duration

Duration tbd.

Language

German/English

Content Overview

This workshop combines the power of reports with the methodology from leading lean companies. The three days cover the three aspects real data, communication and processes. The focus of the first day is the reports, their meaning and relevance and the mapping to the right audience. Evaluation and improvement of the existing shop floor communication is done on the second day. The third day covers the introduction of the topics from the last two days and the review and implementation of the improvement process.

Main Topics

- Review CIP process
- Review and analyze reports that include customer real world data
- Review existing Shop Floor Management execution.
- Discuss and decide on required data for which audience, including Retrain and introduction of new reports
- Analyze first success and discuss rollout into other units
- Ensure functional communication around meaningful data
- Analyze and improve the improvement cycle

Available Delivery Design

- Leader led workshop (onsite)

Target Group

- Complete project team
- Lean team
- Production planner and responsible management
- Shop Floor personnel (important)
- Partially top management

Prerequisites

- First Reports from project implementation available.

Prices

Scope and duration based on CIP maturity level and selected LEAN partner

AC4DC

***Asset Connectivity
4 Data Collection***

AC4DC Basic Admin

Course Identifier

AC4DC-BAA

Duration

2x half a day

Language

German/English

Content Overview

This course is designed to deliver a basic understanding of templates, libraries and how to connect assets.

Main Topics

- Understand the overall architecture of the AC4DC solution consisting of the Control Center and Gateways
- Provide an in-depth understanding of north- and south-bound concepts
- Understand the architecture and options of machine templates within the library
- Learn how to create and connect new assets using templates
- Learn how to create and connect new assets without templates
- Learn how to create and use asset hierarchies
- Learn how to customize program units, data structures and messages for dedicated applications
- Practical Exercises to build new machines including program units, data structures, signals, messages.

Available Delivery Design

- Leader led training (default remote delivery)

Target Group

- Subject Matter Experts and key users who are responsible to create asset templates and/or create and connect new assets

Prerequisites

- Good skills in PLC programming, machine signals and interpretation, OPC-UA in general, PLC protocols

Prices

Per person	900 US\$/EUR
Dedicated event (FEG location, 6 persons)	3000 US\$/EUR
Additional person per event (max 4 additional)	450 US\$/EUR
<i>For other locations additional cost might apply</i>	