

Services

Training & Certification

Greater Knowledge for Greater Success!



Editorial

“Greater Knowledge for Greater Success”

The entirely new catalog contains training and further qualification programs as well as a new certification program for our new products — all of this under the motto “Greater Knowledge for Greater Success.” A new era of software solutions for the Smart Factory begins with HYDRA X and FEDRA 2, and with a new range of training courses. We are again hosting Certification Days to give our participants the chance to become formally certified.

Plan your training and certification today to master your system and mApps right from the start. Carefully consider the following questions: What training do I need? Who is going to need training in my company? How can the acquired knowledge be effectively established throughout the organization? We would be delighted to support you in finding the right answers and the suitable training. Use our experience and capabilities to be up and running for your Smart Factory!

We look forward to our training sessions and to officially turning you into a Certified Specialist or Certified Solution Developer!

Your
MPDV Training & Certification Team

Contact and training centers



Taking off together on a smart footing

Let's take off together with HYDRA X and FEDRA 2: Plan your training today and compile your personal training plan. We will reserve the training places for you and advise you:

- advising on the right training for you and your team
- selecting the training and put it into the right order
- preparing individual training units for your company

You might also have questions about content or need help with booking training in the webshop?

We are here for you! Contact us at trainings@mpdv.com



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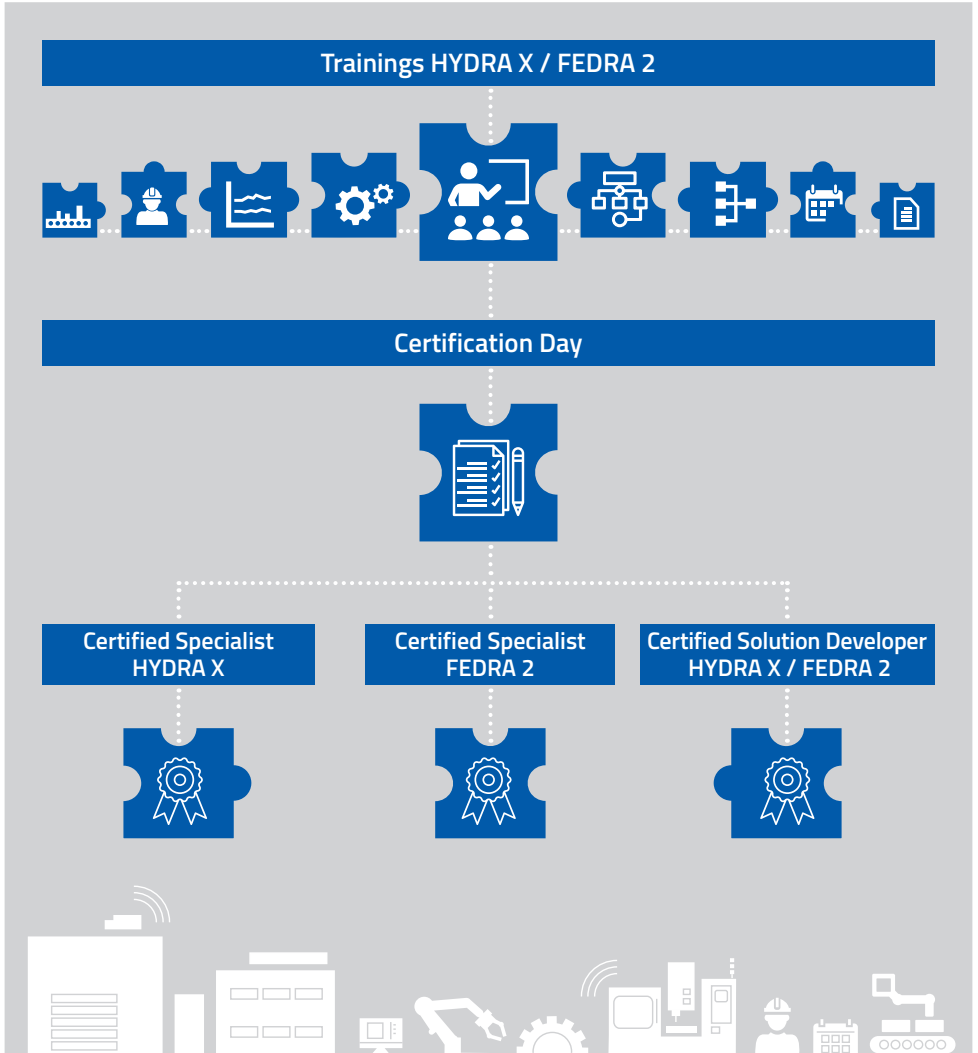
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Training and certification program



General notes

Technical requirements

All standard training courses are based on the current HYDRA version and on a training system provided by MPDV.

Trainer

The courses are conducted by qualified MPDV trainers who have extensive hands-on experience and are well versed in the implementation and application of MES HYDRA and APS FEDRA. You will have ample opportunity to consolidate your theoretical knowledge with practical exercises.

Dates

You can find the latest training dates on our website at www.mpdv.com or via myMPDV.

Documentation and training certificates

Along with presentations, each participant will receive detailed digital training materials and a certificate of participation.

Training language

We offer our training courses in German, English and Chinese. The course language is outlined at www.mpdv.com or via myMPDV.

Training hours

One-day training courses start at 9 am: Training courses lasting longer than one day start at 10 am. Training courses usually end at 5 pm.

Registration

You have the following options to register for MPDV Training & Certification sessions:

- myMPDV or the MPDV webshop: <https://shop.mpdv.com>
- MPDV website: www.mpdv.com
- E-Mail to: trainings@mpdv.com

We recommend early booking as the number of participants in our training courses is limited. Registrations are accepted in the order of receipt.

Conditions

You can find terms & conditions for our training courses at mpdv.info/training-terms.

Training types

Training courses are designed around your needs: Simply choose the type that works best for you.


- **Standard training**
 - Public Training: MPDV standard training, for which content, duration and dates are fixed according to the training calendar. Participants are from different companies.
 - Company Training: MPDV standard training with fixed content, duration and dates. The courses are held according to your specified date exclusively with participants from your company.
- **Hands-on training:** Hands-on training with standardized background knowledge and individual components on your system landscape and with your data.
- **Individual training:** Individual training tailored to your needs, for which you determine content, duration and location. Contact your MPDV sales contact for more information.

Standard Training		Hands-on Training		Individual Training
Public Training (MPDV training dates)		Company Trainings		On customer system
Online	Face-to-Face at MPDV	Online	Face-to-Face On-site	
		On-site		As agreed, according to the customer's requirements



Training courses

	Application Training	Operational Training	Development Training
Who	Key users, project team, users	Technical key users, IT/OT administrators	Developers, IT staff
What	Operation, function processes	Administration, tools, configuration	Development tools and opportunities
e.g.	Order management, material management,...	Application administration, shop floor acquisition services	Distributed Edge Computing, Enterprise Connectivity Service, user interface,...



Visit the MPDV training courses and become a real HYDRA X / FEDRA 2 specialist.

Are you facing a new implementation or a migration to HYDRA X / FEDRA 2? Or would you like to gain hands-on experience on applications? Are you about to undertake further developments in HYDRA X / FEDRA 2 yourself? Then we certainly have a suitable training in our portfolio.

We set the focus on the following categories:

- Application training for users and mApp users
- Operational training for IT administrators and support staff
- Hands-on training for users with introduction to their own data environment / system
- Development training for developers and technical staff



Application Training



Application Training — overview

AT-APS	Advanced Planning and Scheduling	3 days
AT-ASM	Assembly Management	4 days
AT-DPM	Digital Production Meeting	0,5 days
AT-EMG	Energy Management	1 day
AT-HR	Human Resource Management	4 days
AT-KBN	eKanban	0,5 days
AT-MAT	Material Management	2 days
AT-ME	Manufacturing Essentials	1 day
AT-ORD	Order Management	2 days
AT-PDM	Process Data Management	2 days
AT-PRJ	Project Time Management	0,5 days
AT-QM	Quality Management	4 days
AT-RES	Resource Management	3 days
AT-SMS	Shop Floor Messaging Service	0,5 days

Advanced Planning and Scheduling

why

Get to know the **world of planning** and opportunities of FEDRA 2.

Learn how to handle a **wide range of planning scenarios**.

Share expertise with other participants and the trainer to construct the **best planning process** for your business.

what

- Detailed scheduling
- Optimized setup planning
- Rule-based planning
- Secondary resource planning
- Workforce planning
- Individually checked planning
- Order planning
- Multi-resource assignment
- Campaign production
- Joint production planning
- Split operations
- AI planning, simulation
- Predictive material planning
- Basics and functions in FEDRA 2

who

- Newcomers and advanced users in production planning and work scheduling
- Production managers
- Employees from material, resource and personnel planning

mApp

DSC, SOP, RDP, SRP, WPL, IVP, COP, MRM, CPL, CPP, OPS, FAI, SIM, PMP

Assembly Management

why

Discover HYDRA in assembly and learn how to **design processes flexibly**.

Learn how to **map processes digitally** and how to guide your operators through assembly processes.

Share expertise with other participants and the trainer and find out about **best practice examples** for your company.

what

- Model production processes
- Assembly control
- Process interlocking
- Integration of peripherals
- Operator guidance
- Operation and configuration
- Assembly management basics

who

- Process owners and users in assembly
- Production managers
- IT staff and process architects

mApp

PMO, ASC, OPG

Digital Production Meeting

why

The **Digital Production Meeting** simplifies your **daily production routine**.

You will learn how to plan and track **production meetings** in a controlled and structured way. Also display **meeting results immediately** for attendees and management.

Share your expertise with other participants and the trainer and **plan meetings** in production.

what

- Manage meetings digitally
- Create list for attendees
- Escalation of issues
- View status and events
- Operation and configuration

who

- Users in production
- Production managers
- IT staff

mApp

DPM

Energy Management

why

Detect and visualize energy consumption in production. In this training you will learn all about how HYDRA can support you reducing energy costs.

Create transparency in your company by sharing experiences with the trainer and other participants.

what

- Energy counter readings
- Regulations and calculation of energy consumption
- Correcting and editing data
- Consumption history and online visualization
- KPIs of consumption data
- Correlation to machine data
- Energy consumption of orders
- Plan counter reading processes
- Resource management basics

who

- Users in the production and process environment and order planning
- Production managers
- Users in the facility management
- IT staff

mApp

EMG

Human Resource Management

why

Get to know the **HR functions** and options in HYDRA.

Learn how to **handle a variety of personnel data**.

Share expertise with other participants and the trainer to **work out HR processes** your business.

what

- HR basics
- HR master data and management
- Time and day accounts
- Time & attendance and clocking records
- Personnel time management on subjects such as leave, pay, missed clocking records, overtime and absenteeism

who

- Users in HR
- IT staff

mApp

WFO, TAA, PTM

eKanban

why

Get to know the complete production with the help of **kanban control loops** in HYDRA.

Share **expertise** with other participants and the trainer to identify the **best way** to implement **eKanban** for your organization.

what

- eKanban basics
- Master data and control loops
- Digital kanban board
- eKanban and interfaces

who

- Users in production and material supply
- Production managers
- IT staff
- Note: Participation in the application training Order Management required.

mApp

KBN

Material Management

why

Get to know the **functions for material and traceability** in HYDRA.

Share **expertise** with other participants and the trainer to identify the **best way** to implement **material management** for your organization.

what

- Material management basics
- Material and inventory management
- Intralogistics and transport management
- Packaging and tracking of handling units
- Tracking & tracing
- Basic introduction to the Shop Floor Monitor (SFM)

who

- Users in production and material supply
- Production managers
- IT staff

mApp

MIM, TRT, LIP, SFM

Manufacturing Essentials

why

Get to know in this training course the basic features of mApps of the **HYDRA X** categories *Order Management* and *Resource Management* and the **FEDRA 2** mApps: explore the user interfaces and basic functions of the client, classify the system architecture, and get to know the terms and data objects and how they are related.

Consolidate the knowledge gained with examples and exercises during the training course.

what

- General basics
- Basics on MIP data structures

who

- users of mApps of the HYDRA X categories *Order Management* and *Resource Management*
- users of mApps of FEDRA 2

mApp

WOM, WOE, MMO, MSA, MPK

Order Management

why

Get to know all about the order management, order controlling and monitoring in HYDRA.

Share **expertise** with other participants and the trainer to identify the **best way** to implement an **order management** for your organization and gain **transparency** in your shop floor — paperless.

what

- Order management basics
- Work order management and editing of work plans
- Create work plans including BOM lists, production resources & tools, documents and texts
- Order evaluations on scrap and posted times
- Value streams with lean performance analysis
- Basic introduction to the Shop Floor Monitor (SFM)

who

- Users in production and order preparation, material and order planning
- Production managers
- IT staff

mApp

WOM, WOE, WOC, SFM

Process Data Management

why

Get to know process data collection in HYDRA and find out how to **optimize your processes**.

Also find out how to analyze process data and introduce the right measures.

Share expertise with participants and the trainer and get to know **best practice examples** for your organization.

what

- Online visualization of process characteristics and limits
- Graphic/tabular analysis tools
- Process parameter progression and sequence analysis
- Process data logs and statistics data
- First Pass Yield evaluation
- Process data management basics

who

- Users in production and quality management
- Production managers
- IT staff
- Note: Participation in the Application Training Resource Management required.

mApp

PDM, PPA

Project Time Management

why

Project Time Management in HYDRA makes it easier to deal with typical projects in production in everyday work.

Get to know how to plan and trace **project orders** methodically and to display project times for everyone.

Share your **expertise** with other participants and **benefit** from our knowledge working with HYDRA **Project Time Management**.

what

- Create and manage project orders
- Latest information on the project order
- Collect and confirm project times for employees
- Overview of employees assigned to projects

who

- Users in production or in the project environment
- Project managers and team members
- IT staff
- Note: Participation in the Application Training Order Management required.

mApp

PRJ

Quality Management

why

Get to know about the **overall production environment** and the **world of quality**.

What **quality inspections** are required in your organization and when? How do you secure **processes** to guarantee quality?

Share your **expertise** with other participants and **benefit** from our knowledge working with **HYDRA Quality Management**.

what

- Inspection planning
- In-production inspection
- Goods receipt inspection
- Inspection data, control loops and histograms
- Supplier evaluations
- Complaint management
- Shop floor monitoring and KPIs
- FMEA
- Test equipment management

who

- Users in production and quality management
- Production and quality manager
- IT staff

mApp

IPL, IPI, IGI, QAS, SUP, EQM, COM, FMEA, SFM

Resource Management

why

Become acquainted with **resources, machines and tools**. We will show you typical **connection, management and integrating options** in HYDRA.

Also find out everything about **maintenance and servicing**.

Share your **expertise** with other participants and **benefit from our knowledge** working with HYDRA Resource Management.

what

- Resource management basics
- Shop floor monitoring and management
- KPIs and evaluations
- Maintenance and service management
- NC management
- Equipment management
- Introduction to DNC & setting data
- Shop floor monitoring basics

who

- Users in production, maintenance and tool management
- Production managers
- Technical staff and machine specialists
- IT staff

mApp

MMO, MPA, MPK, SFM, EQM, MSM, DNC

Shop Floor Messaging Service

why

The **Shop Floor Messaging Service** makes your daily **production routine** much easier.

Get to know how to use the Shop Floor Messaging Service to make information flows in production **transparent, effective and structured**.

Share your expertise with other participants and the trainer and **plan meetings in production**.

what

- Create, send, forward, reply and conclude messages
- Set up recipients or groups of recipients.
- Send messages to people, a terminal and groups
- State of information of your communication partner

who

- Users in production, quality management and HR
- IT staff

mApp

SMS



**Operational
Training**



Operational Training — overview

OT-ADT	Audit Trail	0,5 days
OT-APA	Application Administration	1 day
OT-DEC	Distributed Edge Computing	2 days
OT-ITA	IT Administration	1 day
OT-SAS	Shop Floor Acquisition Services	1 day
OT-UI	User Interface	0,5 days

Audit Trail

why

Want to know the master data changed in the system, when and for what reason?

Get to know all about **change tracking, logging and changes** in the **Audit Trail training**.

Share your expertise on this topic with other participants and the trainer.

what

- Log master data changes
- Configure recording options
- Control comment input
- Compare master data versions

who

- Application administrators
- Production managers
- IT staff

mApp

ADT

Application Administration

why

Get to know how to implement and administer appropriate **user concepts**.

Share your expertise with other participants and the trainer and benefit from our wealth of best practice experience.

what

- Authorization concept with user administration
- Password policy
- Administration tools and cyclic jobs
- Enterprise Connectivity Services
- Active Directory Integration
- Login per Single Sign On
- Data retention and archiving
- ShopfloorApp and the ShopfloorHub

who

- Application administrators of the MIP runtime
- IT staff

mApp

ECS, ADI, SSO

Distributed Edge Computing

why

Get to know everything about the different options to connect machines and machine communication.

Share your **expertise** with other participants and the trainer and get to know **best practice examples** in **Distributed Edge Computing**.

what

- Functions for Distributed Edge Computing and architecture
- Communication technologies (e.g. OPC-UA and MQTT)
- Machine communication (upload/download)
- Monitoring
- Maintenance and software updates

who

- Application administrators
- Specialists for machine connection
- Staff/IT managers

mApp

DEC

IT Administration

why

Explore the **system architecture** and **IT administration** and learn about the **MIP server, database, and administration tools** for maintenance, control and analysis.

Share your expertise with other participants and the trainer and consolidate your knowledge using a number of **practice examples**.

what

- MIP architecture and the operation of mApps
 - Communication technologies between client/server
 - Logging and analysis with administration tools on clients, servers and interfaces
 - Update management
 - Administration of the database
 - Error analysis, failures, emergencies
-
- IT administrators of the MIP runtime installed on-premises
 - Staff/IT managers

who

mApp

MIP-RT

Shop Floor Acquisition Services

why

Get to know how to **customize** data collection for your **shop floor** client.

This training enables you to **model your services** for data collection.

Share your **expertise** with other participants and the trainer and learn how **flexible** the **data collection** in the system is.

what

- Functionality of data collection
- Interaction of client/server
- Basics of the XML markup language
- Model your services for data collection
- Scope concept to administer custom XML files
- Activate/deactivate acronyms, plausibility checks or activities

who

- Application administrators in production
- Production managers
- Technical staff and XML specialists
- IT staff

mApp

MIP-RT

User Interface

why

Design your shop floor clients and have additional information displayed.

Ensure **ergonomic solutions** for **data collection** in your production and find the **best solution** for your **collection environment**.

what

- Customize clients
- Create custom layouts for individual users or system-wide
- Model input dialogs that perfectly fit your processes in the shop floor
- Design your home page for shop floor devices

who

- Administrators in production
- Process managers
- Production managers and users
- Technical staff
- IT staff

mApp

MIP-RT



Hands-on
Training



Hands-on Training — overview

HAT-ACC	Training Access Control	1 day
HAT-IPW	Incentive and Premium Wage	1 day

Training Access Control

why

Get to know the functionality of **access control** with **hands-on examples**. Customize, configure and apply functions directly in **your system** and **data environment**.

Feel free to ask the trainer any questions and use their experience to start directly and pragmatically

what

Human Resource Management basics

- Operate HYDRA X user interfaces
- HYDRA X system architecture
- Find out how to implement HR management into a typical IT environment
- Learn the basic terms and objects of the HR managements
- Get to know about typical HR processes

Access Control (ACC)

- Learn access control in HYDRA X
- Create master data and access profiles
- Create and edit ID cards
- Change data for several ID cards in one go
- Synchronize employee's data with the assigned ID card
- System logs and how to interpret them
- Display access statuses and monitor them in the system
- Create time-controlled accesses in the system

who

- Application administrators for HR
- Employees responsible for the access control
- Technical staff
- IT staff
- Note: Participation in the Operational Training Application Administration required.

mApp

ACC

Incentive and Premium Wage

why

Get to know **incentive and premium wages** in detail and implement **your data in HYDRA X**.

Consolidate the knowledge you have learned with **practical examples and exercises in your system** and continue directly **after the training**.

what

Human Resource Management basics

- Operate HYDRA X user interfaces
- HYDRA X system architecture
- Find out how to implement HR management into a typical IT environment
- Learn the basic terms and objects of the HR managements
- Get to know about typical HR processes

Incentive & Premium Wage (IPW)

- Incentive and premium wage basics
- Calculation of incentive wage components for employees based on order data collection and personnel time management
- Find out how to deal with deleted/forgotten clocking records
- Display daily results of employees
- Secure access to employee data
- Find out how to deal with deviations by adding extra time to standard times
- Calculation of time tickets for a processed order
- Time limit for rules

who

- Application administrators for HR
- Employees responsible for personnel time management
- IT staff
- Note: Participation in the Operational Training Application Administration required.

mApp

IPW



Development Training



Development Training — overview

DT-DEC	Distributed Edge Computing	2 days
DT-ECS	Enterprise Connectivity Services	3 days
DT-LRD	Label & Report Design	3 days
DT-MBO	Manufacturing Business Objects	2 days
DT-OSD	Object & Service Development	5 days
DT-UI	User Interface	5 days

Distributed Edge Computing

why

Customize your system according to requirements to connect your **peripherals and equipment**.

Share your **expertise** with other participants and the trainer to create your **specific drivers and scripts**.

what

- Basic knowledge of DEC technology
- Map logical channels and integrate them into the overall system
- Model components and integrate new ones
- Create drivers and scripts to connect peripherals and equipment
- Find out how to use the driver development framework and the driver template library

who

- Programmers with knowledge of C# and .net and basic application knowledge
- IT staff

mApp

DEC

Enterprise Connectivity Services

why

Customize the system according to your specific requirement for **data processing and interface content**.

Share your **expertise** with other participants and the trainer to implement your **MLE variants or additional fields and processing** into the system.

what

- Deployment, processing and implementation of ECS communication for extended data exchange
- Extension of fields and their processing
- Create MLE variants for the transfer of new data structures
- Create of user exits for customized inbound/outbound processing
- Create outbound segments

who

- Software developers with basic application knowledge
- IT staff
- Note: Users who deploy the Enterprise Connectivity Development Suite

mApp

ECDS

Label & Report Design

why

Want to configure customized labels and reports.

After this training, you will be able to **create user interfaces** to display your own labels and reports.

Share your **expertise** with other participants and the trainer and learn how **easy** it is to **prepare data** in the system.

what

- Get to know the Label & Report Designer
- Find out how labels and reports are structured
- Use services to provide data for the report
- Configure your own labels

who

- Software developers with basic application knowledge
- IT staff
- Note: Users who have participated in the Development Training Manufacturing Business Objects and are using the Label & Report Designer.

mApp

MIP-RT

Manufacturing Business Objects

why

Learn about **object structure, relationships** and **object integration** in the **database** to access it for **analysis, custom data processing** or **reporting**.

Share your **expertise** with other participants and the trainer and you will **learn about connections** and **find your way around the system**.

what

- Overview of Manufacturing Business Objects and object structure of Virtual Production Reality (ViPR)
- MPDV Repository Client (MRC) to map objects/relationships
- Service interface and access to objects
- Introduction to relational database systems and the query language SQL as well as object integration

who

- Technical staff with basic knowledge of real objects and processes in the manufacturing environment
- IT staff

mApp

LRD

Object & Services Development

why

Want to create your own objects and access services.

This training enables you to **model your services** for data collection.

Share your **expertise** with other participants and the trainer and learn how **flexible** the **data collection** in the system is.

what

- Functionality of data collection
- Interaction of client/server
- Basics of the XML markup language
- Model your services for data collection
- Scope concept to administer custom XML files
- Activate/deactivate acronyms, plausibility checks or actions

who

- Technical staff with basic knowledge of real objects and processes in the manufacturing environment
- XML specialists with basic knowledge of relational databases and the query language SQL as well as Java, C#/.NET or Java script
- Note: Participation in the Development Training Manufacturing Business Objects is required.

mApp

BLDS

User Interface

why

Need more individuality on your user interface? Get to know in this training how easy it is to customize the system with appropriate tools.

Share your **expertise** with other participants and the trainer and learn how to create your **company-specific interfaces, graphics, languages or icons**.

what

- UI development suite
- Customize interface layouts
- Change icons, create language entries
- Extend/customize existing applications
- Extend UI with widgets you create yourself
- Create interfaces with existing data sources
- Display data as charts
- Deployment tools

who

- Technical staff with basic knowledge of software development
- Users deploying UI Development Suite
- Note: Participation in the Development Training Manufacturing Business Objects as required.

mApp

UIDS



Special Training



Special Training — overview

ST-PM

Project Management

1 day

Project Management

why

How do you manage a successful **HYDRA X implementation or migration project**?

Interested in **further developing** your system or roll it out to **multiple sites**?

Get to know typical organizational processes to successfully drive your system implementation.

what

Learn about project management:

- Structural and process organization
- Environment analysis, definition of task and goal
- Reporting and communication in the project team
- Scheduling, project phases and work breakdown structure
- System management
- Change request management
- System environment MPDV products, change management, maintenance and support

who

- Project management
- Implementation partners
- HYDRA X core team and multipliers
- IT staff



Certification








Certified



alt


Training and certification program






HYDRA X
CERTIFIED SPECIALIST


 Administration	 Order Management	 Resource Management
 Process Data	 Energy Data	 Material Management
 Quality Management	 HR Management	 Assembly Management

 **FEDRA**
CERTIFIED SPECIALIST
FEDRA 2

 Administration	 Planning
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HYDRA X
 **FEDRA**
CERTIFIED SOLUTION
DEVELOPER

 Distributed Edge Computing	 Label & Report Design	 Enterprise Connectivity
 Object & Service Development	 User Interface	



Certified Specialist HYDRA X

Scope	Training	Code	Duration	mApps
Administration	Operational Training Application Administration	OT-APA	1 day	MIP-RT
	Operational Training IT Administration	OT-ITA	1 day	
	Operational Training User Interface	OT-UI	0,5 days	
	Operational Training Shop Floor Acquisition Services	OT-SAS	1 day	
Order Management	Application Training Manufacturing Essentials	AT-ME	1 day	WOM, WOE, MMO, MSA, MPK, WOC (KBN, PRJ)
	Application Training Order Management	AT-ORD	2 days	
Resource Management	Application Training Manufacturing Essentials	AT-ME	1 day	WOM, WOE, MMO, MSA, MPK, EQM, MSM, DNC,
	Application Training Resource Management	AT-RES	3 days	
	Operational Training Distributed Edge Computing	OT-DEC	2 days	
Process Data	Application Training Process Data Management	AT-PDM	2 days	PDM, PPA
	Operational Training Distributed Edge Computing	OT-DEC	2 days	
Energy Data	Application Training Energy Management	AT-EMG	1 day	EMG
	Operational Training Distributed Edge Computing	OT-DEC	2 days	
Material Management	Application Training Material Management	AT-MAT	2 days	MIM, TRT, ILP
Quality Management	Application Training Quality Management	AT-QM	4 days	IPL, IPI, IGI, SUP, QAS, COM, FMEA
HR Management	Application Training HYDRA HR Management	AT-HR	4 days	WFO, TAA, PTM
Assembly Management	Application Training Assembly Management	AT-ASM	4 days	PMO, ASC, OPG
Certification Day	Certified Specialist HYDRA X	CE-SHX	1 day	

Certified Specialist FEDRA 2

Scope	Training	Code	Duration	mApps
Administration	Operational Training Application Administration	OT-APA	1 day	MIP-RT
	Operational Training IT Administration	OT-ITA	1 day	
	Operational Training User Interface	OT-UI	0,5 days	
	Operational Training Shop Floor Acquisition Services	OT-SAS	1 day	
Planning	Application Training Manufacturing Essentials	AT-ME	1 day	DSC, SOP, RDP, SRP, WPL, IVP, COP, MRM, CPL, CPP, OPS, FAI, SIM, PMP, WOM, WOE, MMO, MSA, MPK
	Application Training Advanced Planning and Scheduling	AT-APS	3 days	
Certification Day	Certified Specialist FEDRA 2	CE-SHF	1 day	

Certified Solution Developer HYDRA X/FEDRA 2

Scope	Training	Code	Duration	mApps
Distributed Edge Computing	Development Training Distributed Edge Computing	DT-DEC	2 days	DEC
Label & Report Design	Development Training Label & Report Design	DT-LRD	3 days	LRD
	Development Training Manufacturing Business Objects	DT-MBO	2 days	
Enterprise Connectivity	Development Training Enterprise Connectivity Services	DT-ECS	3 days	ECDS
Object & Service Development	Development Training Object & Service Development	DT-OSD	5 days	BLDS
	Development Training Manufacturing Business Objects	DT-MBO	2 days	
User Interface	Development Training User Interface	DT-UI	5 days	UIDS
	Development Training Manufacturing Business Objects	DT-MBO	2 days	
Certification Day	Certified Solution Developer HYDRA X/FEDRA 2	CE-DHF	1 day	

WE

We have more than 40 years of experience and the motivation to turn your vision of the Smart Factory into reality.

CREATE

We know the market and design products with a focus on market requirements.

SMART
FACTORIES

We have a clear vision of the self-regulating factory and create real added value for our users.

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