

Pharma Software

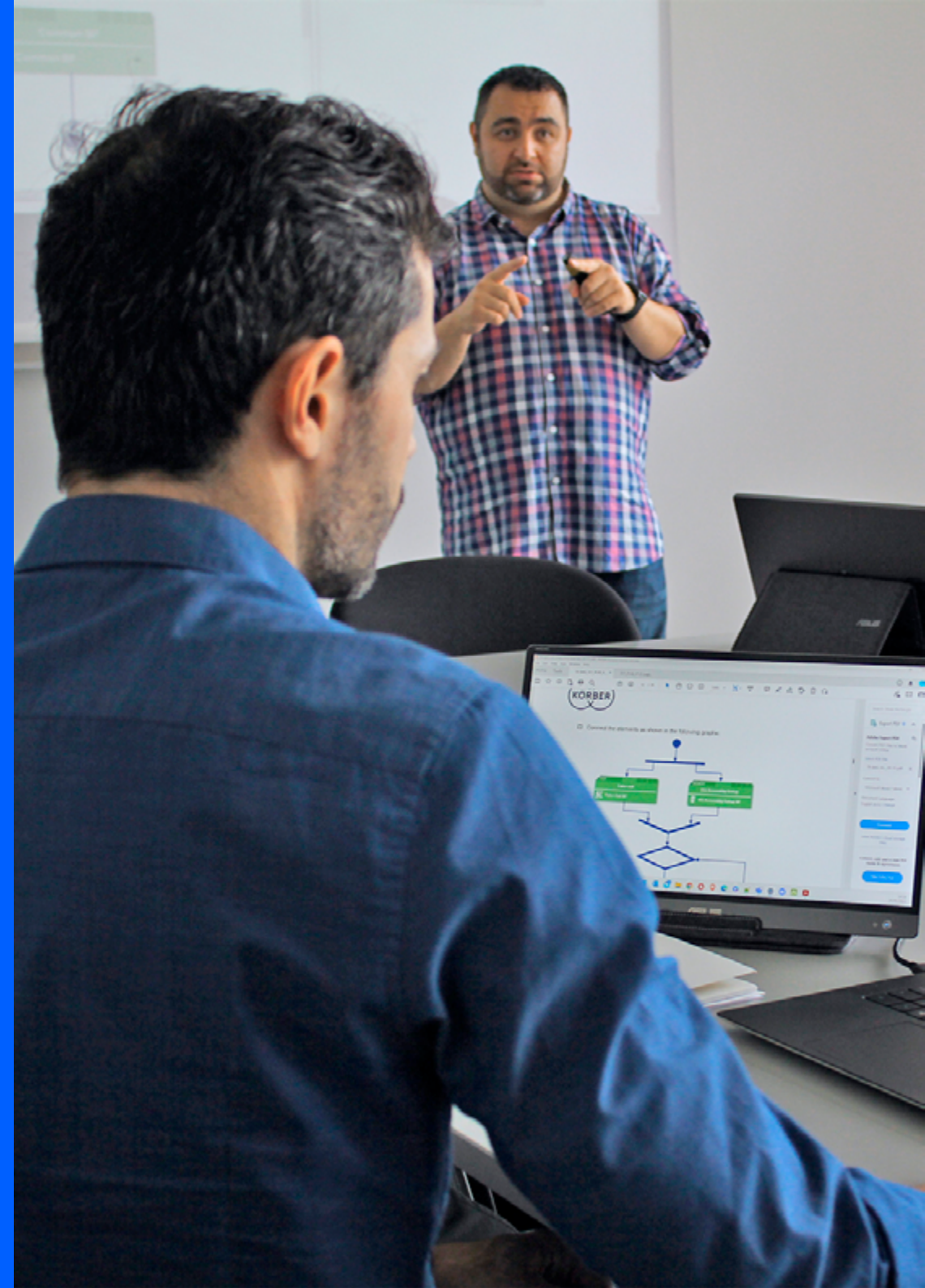
Training Program 2025

Our comprehensive PAS-X trainings ensure the success of your MES projects in the pharma, biotech, and cell & gene therapy industries



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Contact

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Registration & information

Would you like to learn more about our training offerings? Do you have questions about a specific course, or would you like to book a training promptly? Feel free to contact us directly, providing details of your training interest.

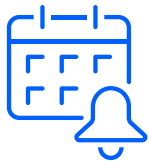
Training when and where you need it

Are you interested in digital learning formats and want to start right away? Our Academy offers a wide range of interactive e-learning and remote trainer-led courses at your fingertips. In addition, the learning platform provides helpful study guides and learning materials that effectively support your learning progress.

Academy

Training anywhere you need it

Whatever your need, whether you are just starting your MES project or you are ready to advance to the next level, we support you with a suitable training approach. We offer Instructor-led Training, E-Learning and Blended Learning for a variety of roles.



⇒ Instructor-led Training

Open Classroom

Standard trainings are held at one of our locations or remotely on a fixed date and time. Single seats can be booked, providing a financial benefit if you want to train fewer than 4 employees.

⇒ Jump to Training schedules

On-site training

Are you looking to train a group of employees? We deliver the training at your location or remotely. Together we will find a schedule that fits your team.



⇒ Interactive E-learning

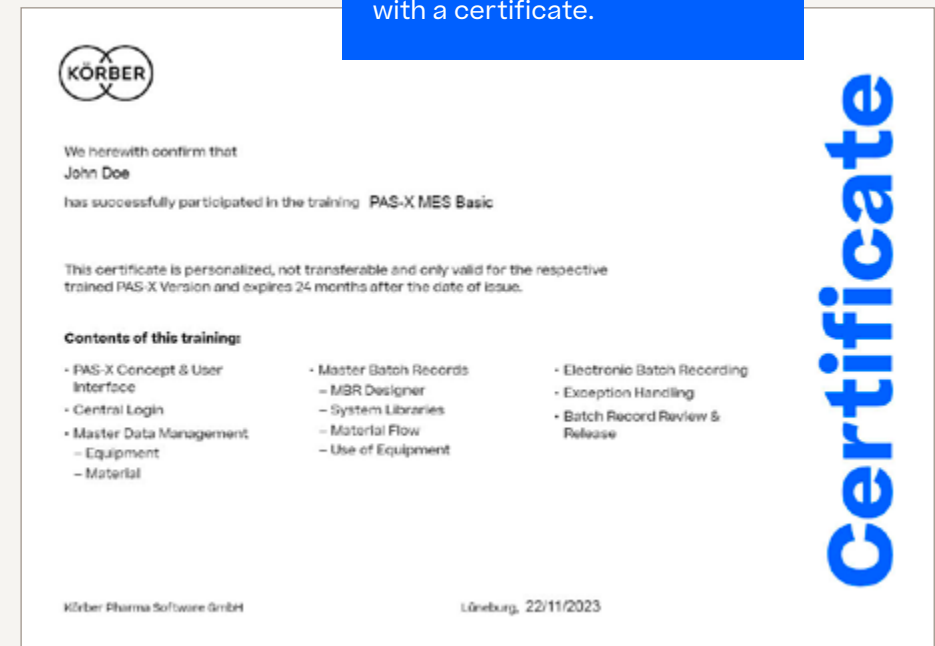
Interactive digital training that can be flexibly integrated into your daily work routine, no travel necessary.



⇒ Blended Learning

Combine the benefits of both learning worlds by gathering theoretical knowledge through e-learning and then efficiently developing deeper understanding in a remote instructor-led training.

Our training courses are certifiable, which means that every participant in a training course will take an exam at the end to ensure that the content taught has been understood. Each successful exam is confirmed with a certificate.



From **Key User** to **End User** training

+3.400
people trained
globally
(2024)

Our training methods are tailored to individual learning targets.

Key User – Personnel tasked to implement, configure, design and set up of PAS-X MES

End User – Personnel tasked to operate the system in their daily work based on the Key User's setup

Based on your role, individual learning paths are laid out, preparing you and your team to work with PAS-X MES in your specialized areas.



– **Key Users**

Basic training

Start your training journey by learning about the functions and capabilities that PAS-X MES has to offer and train your team on all the fundamentals.



– **Key Users**

Professional training Administration training

Enable your Key Users with advanced PAS-X MES knowledge and experience to implement complex use cases and scenarios in your system, whether it is MBR Design, Master Data or other configurations.



– **End Users**

Tailored training

Adapted training concept based on your manufacturing processes to ensure hands-on preparation of End Users for a smooth go-live.

Training / PAS-X MES implementation timeline

Go-live

PAS-X Version update / Refresher trainings

Digital training platform

academy.koerber-pharma.com

Learn PAS-X
anywhere and
anytime

The desktop interface features a blue header with navigation links for 'Dashboard' and 'Catalog', and a search bar. Below the header, the 'My Courses' section is active, displaying a 'Welcome to the Academy' message with a 'Course catalogue' button. A video player shows a preview of the platform. A statistics dashboard shows 9 Enrolled Courses, 0 Learning Journeys, 11 Completed Courses, and 1 Learning Path. A featured course, 'PAS-X V3.3.1 Basic (Blended Learning)', is highlighted with a 'View' button. The 'Recent Activity' section shows a notification: 'You launched the course Creating Master Batch Records 4 days ago'.



Key User specific training

PAS-X MES training

MBR Designer / MES Engineer

- Basic
- Version Update
- Professional
 - Weighing & Dispensing
 - Material Flow
 - EQ Management
 - Library Elements & GMBR
 - Order Network & CX
 - Formulas
 - MBR Design
 - ERP Integration

System Administrator

- Basic¹
- System Administration
- Version Update
- Monitoring

Label Designer

- Basic¹
- Reports & Labels Administration

Automation Engineer

- Basic
- SCADA Administration
- SCADA Professional MBR Design
- Professional MSI

Quality Manager

- Basic for QA
- Version Update

Project Manager

- Basic
- Version Update

Additional training

Track & Trace

- Basic
- Administration

Monitoring

- Monitoring²

KPI

- Administration²

PAS-X Savvy

- Basic
- Administration
- Programming

¹ Optional for this role

² Subject to availability, Upon request



Tailored End User training

Shop floor Operator
Manufacturing Supervisor
Shop floor QA

Do you wish for a smooth MES implementation and effective preparation of all employees?

We help you minimize production downtime by familiarizing your team with the system and preparing them accordingly for their tasks. This is how you ensure a successful start with PAS-X.

In our training courses, we link the basic understanding of the system and its functions to the tasks to be performed, reflecting customer-specific processes and production steps. Therefore, we offer training courses that are individually tailored to your needs, designed to fit your production processes.

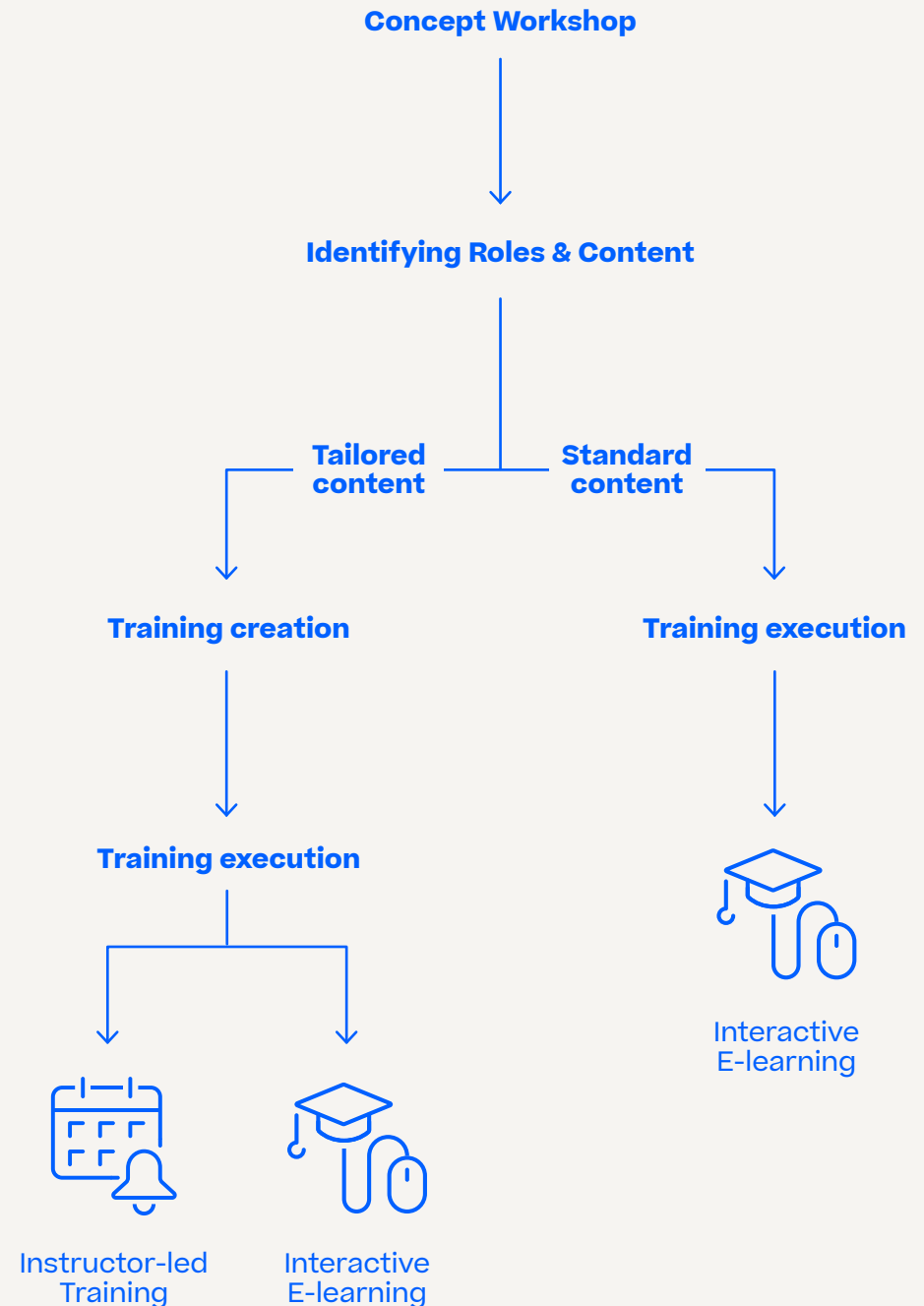
While tailored content deepens the users understanding it is also not always necessary. In that case you can train the end users with our ready to use standardized courses. The execution via e-learning saves you valuable

time and resources The end users can study PAS-X within their own pace and integrate the learning easily into their daily business

Would you like to train your employees yourself?

We also support you in conducting training for your end users with our train-the-trainer approach. In these, key users are enabled to conduct the training themselves for all relevant team members. Of course, we can also take care of the end-user training for you.

However, you choose, a workshop to assess your needs and determine the scope of training is the starting point for tailored training, followed by close collaboration between your team and our trainers. Together, we develop the appropriate training program and materials



PAS-X MES

Key user trainings

Available as



Recommended training for

- MBR Designer
- MES Engineer
- Automation Engineer
- Project Manager

PAS-X MES Basic		TR-BAS		
Training objectives	<ul style="list-style-type: none"> → General knowledge of and skills in using PAS-X MES, modeling processes and executing the main system functionalities → Overview of PAS-X MES functionalities covering the whole production process 			
Target audience	Users and administrators of the PAS-X system, project manager and key users as supervisors, team leaders, quality personnel, head of production			
Required qualifications	None			
Required equipment	Laptop			
Duration	3 days /09:00 a.m. – 05:00 p.m.			
Language	English			
Certification valid for	2 years			
Training content	<table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top; width: 50%;"> <p>PAS-X MES concept</p> <ul style="list-style-type: none"> • PAS-X MES product concept <p>User interface</p> <ul style="list-style-type: none"> • Overview of the general structure of the user interface • Dialogs & forms • Use of filters <p>Master data management</p> <ul style="list-style-type: none"> • Equipment management & material master data <p>Master Batch Record – management</p> <ul style="list-style-type: none"> • Concept and structure • Basic recipe • MBR designer • Creating recipes • Bill of material • Material flow concept & use of equipment </td> <td style="vertical-align: top; width: 50%; border-left: 1px solid black;"> <p>Master Batch Record – release workflow</p> <p>Electronic Batch Recording – EBR</p> <ul style="list-style-type: none"> • Order Management • Recipe execution • Exception handling <p>Batch Record Review</p> <ul style="list-style-type: none"> • Exception Review • Review of critical parameters • Batch Record release </td> </tr> </table>		<p>PAS-X MES concept</p> <ul style="list-style-type: none"> • PAS-X MES product concept <p>User interface</p> <ul style="list-style-type: none"> • Overview of the general structure of the user interface • Dialogs & forms • Use of filters <p>Master data management</p> <ul style="list-style-type: none"> • Equipment management & material master data <p>Master Batch Record – management</p> <ul style="list-style-type: none"> • Concept and structure • Basic recipe • MBR designer • Creating recipes • Bill of material • Material flow concept & use of equipment 	<p>Master Batch Record – release workflow</p> <p>Electronic Batch Recording – EBR</p> <ul style="list-style-type: none"> • Order Management • Recipe execution • Exception handling <p>Batch Record Review</p> <ul style="list-style-type: none"> • Exception Review • Review of critical parameters • Batch Record release
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Available as



Recommended training for

→ Quality Manager

PAS-X MES Basic for QA		TR-BAS-QA
Training objectives	<ul style="list-style-type: none"> → Detailed knowledge of and skills in using PAS-X for QA purposes → Using PAS-X in real-life scenarios 	
Target audience	Key users as quality managers, supervisors and head of production.	
Required qualifications	mandatory	optional
	–	–
Required equipment	Laptop	
Duration	2 days /09:00 a.m. – 05:00 p.m.	
Language	English	
Certification valid for	2 years	
Training content	<p>Quality Assurance with PAS-X</p> <ul style="list-style-type: none"> • Life cycle management of master batch records • Critical parameters • Exception handling • Review by Excpetion • Batch record review & approval • Archiving of batch record reports • Batch quality attributes 	

Available as



Recommended training for

- MBR Designer
- MES Engineer

PAS-X MES Professional Weighing & Dispensing		TR-PRO-WD		
Training objectives	<ul style="list-style-type: none"> → Detailed knowledge of and skills in weighing and dispensing of materials in the context of the MBR modeling and EBR execution process → Usage of PAS-X MES in real life scenarios 			
Target audience	Key users as recipe designers, supervisors and team leaders.			
Required qualifications	mandatory	optional		
	Basic training	-		
Required equipment	Laptop			
Duration	1 day / 09:00 a.m. – 05:00 p.m.			
Language	English			
Certification valid for	2 years			
Training content	<table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top; width: 50%;"> <p>Weighing recipe & administration</p> <ul style="list-style-type: none"> • Bill of material • Container Management • Weighing configuration <p>Weighing preparation</p> <ul style="list-style-type: none"> • Prepare production • Shop floor order dialog • Material item setting </td> <td style="vertical-align: top; width: 50%;"> <p>Weighing recipe execution</p> <ul style="list-style-type: none"> • Different weighing modes • Manual take-out • Weighing procedures • Material takeouts • Yield weighing <p>Post-weighing activities</p> <ul style="list-style-type: none"> • Inventory adjustment • Takeout log information • Managing material returns & losses </td> </tr> </table>		<p>Weighing recipe & administration</p> <ul style="list-style-type: none"> • Bill of material • Container Management • Weighing configuration <p>Weighing preparation</p> <ul style="list-style-type: none"> • Prepare production • Shop floor order dialog • Material item setting 	<p>Weighing recipe execution</p> <ul style="list-style-type: none"> • Different weighing modes • Manual take-out • Weighing procedures • Material takeouts • Yield weighing <p>Post-weighing activities</p> <ul style="list-style-type: none"> • Inventory adjustment • Takeout log information • Managing material returns & losses
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Available as



Recommended training for

- MBR Designer
- MES Engineer

PAS-X MES Professional Material Flow		TR-PRO-MATFLOW
Training objectives	<ul style="list-style-type: none"> → Detailed knowledge of and skills in using the material flow within PAS-X MES → Using PAS-X in real-life scenarios 	
Target audience	Key users as recipe designers, supervisors and team leaders.	
Required qualifications	mandatory	optional
	Basic training	Formula training
Required equipment	Laptop	
Duration	1 day / 09:00 a.m. – 05:00 p.m.	
Language	English	
Certification valid for	2 years	
Training content	<p>Material management</p> <ul style="list-style-type: none"> • Material master data • Handling unit management • Work in process material 	<p>Material flow within MBRs</p> <ul style="list-style-type: none"> • Design material flow • Material quantification types • Hand over material • Holding time • Automated material flow functions

Available as



Recommended training for

- MBR Designer
- MES Engineer

PAS-X MES Professional EQ Management		TR-PRO-EQM
Training objectives	<ul style="list-style-type: none"> → Detailed knowledge of and skills in configuring and using equipment as well as reusable equipment → Using PAS-X MES in real-life scenarios 	
Target audience	Key users as recipe designers, supervisors and team leaders.	
Required qualifications	mandatory	optional
	Basic training	Formula training
Required equipment	Laptop	
Duration	1 day / 09:00 a.m. – 05:00 p.m.	
Language	English	
Certification valid for	2 years	
Training content	<p>Equipment management</p> <ul style="list-style-type: none"> • Equipment concept • Equipment specific properties • Equipment cleaning rules • State diagrams • Equipment logbook 	<p>Equipment usage within Master Batch Record</p> <ul style="list-style-type: none"> • Using the equipment library • Creating ESPs • Defining equipment list • Automated equipment functions

Available as



Recommended training for

- MBR Designer
- MES Engineer

PAS-X MES Professional Library Element & GMBR		TR-PRO-GMBR
Training objectives	<ul style="list-style-type: none"> → Detailed knowledge of and skills in using GMBRs and libraries in the context of MBR modeling and EBR execution processes → Usage of PAS-X MES in real life scenarios 	
Target audience	Key users as recipe designers, supervisors and team leaders.	
Required qualifications	mandatory	optional
	Basic training	Formula training
Required equipment	Laptop	
Duration	1 day / 09:00 a.m. – 05:00 p.m.	
Language	English	
Certification valid for	2 years	
Training content	<p>Generic Master Batch Records</p> <ul style="list-style-type: none"> • Concept of generic master batch records • Parameterization of GMBRs • Managing parameter value lists • Defining global parameters • Life cycle management of GMBRs 	<p>Library administration</p> <ul style="list-style-type: none"> • Library concept • Creating libraries and library elements • Formula variable in library elements • Using library elements • Life cycle management of library elements

Available as



Recommended training for

- MBR Designer
- MES Engineer

PAS-X MES Professional Order Network & CX		TR-PRO-CX
Training objectives	<ul style="list-style-type: none"> → Detailed knowledge of and skills in setting up, configuring and using the characteristics functionality within PAS-X for propagating information between different manufacturing orders → Using PAS-X MES in real-life scenarios 	
Target audience	Key users as recipe designers, supervisors and team leaders.	
Required qualifications	mandatory	optional
	Basic training	-
Required equipment	Laptop	
Duration	1 day /09:00 a.m. – 05:00 p.m.	
Language	English	
Certification valid for	2 years	
Training content	<div style="display: flex; justify-content: space-between;"> <div style="width: 65%;"> <p>Characteristics & Order Network</p> <ul style="list-style-type: none"> • Concept of CX and order network • Data propagation using CX <p>Administration of characteristics</p> <ul style="list-style-type: none"> • Defining characteristics (CX) • Managing CX for equipment and material • Maintaining characteristics </div> <div style="width: 30%; border-left: 1px solid black; padding-left: 10px;"> <p>Usage of characteristics within recipes</p> <ul style="list-style-type: none"> • Parameterization of characteristics • Using of CX basic function • Using CX within activities <p>Recipe Execution using characteristics</p> <ul style="list-style-type: none"> • Writing characteristics to equipment • Reviewing characteristics </div> </div>	

Available as



Recommended training for

- MBR Designer
- MES Engineer

PAS-X MES Professional Formulas		TR-PRO-FORM
Training objectives	<ul style="list-style-type: none"> → Detailed knowledge of and skills in using the formula editor in PAS-X → Using PAS-X MES in real-life scenarios 	
Target audience	Key users as recipe designers, supervisors and team leaders.	
Required qualifications	mandatory	optional
	Basic training	MBR design training
Required equipment	Laptop	
Duration	1 day / 09:00 a.m. – 05:00 p.m.	
Language	English	
Certification valid for	2 years	
Training content	<p>Managing Formulas</p> <ul style="list-style-type: none"> • Overview of formula editor • Formula verification in master batch record • Using formulas for different use cases • Formula simulation in batch execution 	

Available as



Recommended training for

- MBR Designer
- MES Engineer

PAS-X MES Professional MBR Design		TR-PRO-MBR		
Training objectives	<ul style="list-style-type: none"> → Specific knowledge on material flow design aspects as well as on event driven workflows → Detailed knowledge of and skills in using signal sender and signal receiver → Using PAS-X MES in real-life scenarios 			
Target audience	Key users as recipe designers, supervisors, team leaders and quality personnel.			
Required qualifications	mandatory	optional		
	Basic training	Formula training		
Required equipment	Laptop			
Duration	1 day /09:00 a.m. – 05:00 p.m.			
Language	English			
Certification valid for	2 years			
Training content	<table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top; width: 50%;"> <p>Master Batch Record</p> <ul style="list-style-type: none"> • Simulation tools • Recipe dependencies ERP / MES • Material flow design aspects based on factory layout • Workflow design for parallel, sequential or repeatable processes • Usage of the layer concept for structuring workflows • Specific design patterns </td> <td style="vertical-align: top; width: 50%; border-left: 1px solid black;"> <p>Managing Signals</p> <ul style="list-style-type: none"> • Concept of signals • Signal buffering • Signal usage within workflow design </td> </tr> </table>		<p>Master Batch Record</p> <ul style="list-style-type: none"> • Simulation tools • Recipe dependencies ERP / MES • Material flow design aspects based on factory layout • Workflow design for parallel, sequential or repeatable processes • Usage of the layer concept for structuring workflows • Specific design patterns 	<p>Managing Signals</p> <ul style="list-style-type: none"> • Concept of signals • Signal buffering • Signal usage within workflow design
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Available as



Recommended training for

- MBR Designer
- MES Engineer

**Available
for 3.3**

PAS-X MES Professional ERP Integration		TR-PRO-ERP
Training objectives	<ul style="list-style-type: none"> → Understanding the concept of the MES ERP interface → Understanding capabilities of utilizing the ERP interface → Gaining knowledge on the usage of ERP messages in PAS-X → Acquiring knowledge to efficiently troubleshooting failed messages in MES 	
Target audience	Key users as recipe designer, supervisors and team leaders	
Required qualifications	mandatory	optional
	Basic training	-
Required equipment	Laptop	
Duration	1 day /09:00 a.m. – 05:00 p.m.	
Language	English	
Certification valid for	2 years	
Training content	<ul style="list-style-type: none"> • iDocs • Master Data • MBR Data • Batch Data/Stock • Process Orders • External Parameters • Notifications • Other Message Types 	

Available as



Recommended training for

- MBR Designer
- MES Engineer
- Automation Engineer

PAS-X MES SCADA Professional MBR Design		TR-PRO-SCADA
Training objectives	<ul style="list-style-type: none"> → Detailed knowledge of and skills in using PCS MBR elements → Using PAS-X in real-life scenarios 	
Target audience	Key users as recipe designers and automation engineers.	
Required qualifications	mandatory	optional
	Basic training	Formula training
Required equipment	Laptop	
Duration	1 day / 09:00 a.m. – 05:00 p.m.	
Language	English	
Certification valid for	2 years	
Training content	<p>SCADA (OPC) MBR Design</p> <ul style="list-style-type: none"> • Introduction to SCADA (OPC) Integration • Managing PCS MBR elements • Recipe design using PCS MBR elements • Using alias resolution within the recipe • Signal handling to drive recipe execution • Recipe execution with PCS MBR elements • Alarm & Event handling 	

Available as



Recommended training for

- MBR Designer
- MES Engineer

PAS-X MES Professional MSI		TR-PRO-MSI		
Training objectives	<ul style="list-style-type: none"> → Setting up, configuring and maintaining the PAS-X MES client system as well as messages – the administrative perspective → Detailed knowledge of and skills in setting up and connecting PAS-X MES to external systems for automatic data exchange (SCADA, DCS, Smart EQM) → Using PAS-X MES in context of MSI in real-life scenarios 			
Target audience	Key users as automation engineers, system administrators as well as recipe designers			
Required qualifications	mandatory	optional		
	Basic training	PAS-X MES formulas training PAS-X MES SCADA (OPC) MBR design training PAS-X MES SCADA (OPC) administration Training		
Required equipment	Laptop			
Duration	1 day /09:00 a.m. – 05:00 p.m.			
Language	English			
Certification valid for	2 years			
Training content	<table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top; width: 50%;"> Introduction of MSI: <ul style="list-style-type: none"> • Concept of Level 2 integration • Concept of message-based shop-floor integration • MSI adapter configuration • Communication monitoring as well as troubleshooting </td> <td style="vertical-align: top; width: 50%;"> Message administration and MBR design: <ul style="list-style-type: none"> • Creation and administration of message • Recipe design and execution of Interface BF • Discussion and design of use cases </td> </tr> </table>		Introduction of MSI: <ul style="list-style-type: none"> • Concept of Level 2 integration • Concept of message-based shop-floor integration • MSI adapter configuration • Communication monitoring as well as troubleshooting 	Message administration and MBR design: <ul style="list-style-type: none"> • Creation and administration of message • Recipe design and execution of Interface BF • Discussion and design of use cases
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Available as



Recommended training for

- All Key Users
- MBR Designer
- MES Engineer
- Automation Engineer
- Project Manager

PAS-X MES Version Update

Training objectives	<ul style="list-style-type: none"> → Knowledge of new functionalities implemented in a new PAS-X MES version → Understanding of the motivation, idea and concept of these functionalities 	
Target audience	Key users as recipe designers, supervisors and team leaders	
Required qualifications	mandatory	optional
	Knowledge of the system that is upgrade from	-
Required equipment	Laptop	
Duration	1 day / 09:00 a.m. – 05:00 p.m.	
Language	English	
Certification valid for	2 years	
Training content	<p>Depending on the versions the content differs.</p> <p>The delta between two PAS-X MES Versions is explained, this can include:</p> <ul style="list-style-type: none"> • New functionalities and how those can be used within the system • New dialogs and their purpose • Already existing functionalities with a changed behavior • Functionalities and/or dialogs which are not available any longer due to e.g. replacement • Software architecture 	

Available as



Recommended training for

- All Key Users
- MBR Designer
- MES Engineer
- Automation Engineer
- Project Manager

PAS-X MES Version Update 3.3.X to 3.3.X		ETR-UP-3.3.X
Training objectives	<ul style="list-style-type: none"> → Knowledge of new functionalities implemented in a new PAS-X MES version → Understanding of the motivation, idea and concept of these functionalities 	
Target audience	Key users as recipe designers, supervisors and team leaders	
Required qualifications	mandatory	optional
	Knowledge of the system that is upgrade from	-
Required equipment	Laptop	
Duration	1 hour	
Language	English	
Certification valid for	2 years	
Training content	<ul style="list-style-type: none"> • New functionalities and features between two minor PAS-X versions are explained. • Only new features of the direct successor are explained (e.g. V3.3.3 to 3.3.4) • Available with market launch of the respective version 	

Available as



Recommended training for

- System Administrator
- MBR Designer
- MES Engineer

PAS-X MES System Administration		TR-ADMIN-SYS		
Training objectives	<ul style="list-style-type: none"> → Setting up, configuring and maintaining the PAS-X MES client system – the administrative perspective → Detailed knowledge of and skills in system administration of a PAS-X MES client environment → Using PAS-X MES in real-life scenarios 			
Target audience	Administrators of the PAS-X system.			
Required qualifications	mandatory –	optional Basic training		
Required equipment	Laptop			
Duration	2 days /09:00 a.m. – 05:00 p.m.			
Language	English			
Certification valid for	2 years			
Training content	<table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top; width: 50%;"> <p>System overview</p> <ul style="list-style-type: none"> • System architecture <p>User administration</p> <ul style="list-style-type: none"> • Management of users/user groups • Rights management <p>PAS-X MES GUI configuration</p> <p>Audit trail</p> <p>PAS-X MES printing/reporting</p> <ul style="list-style-type: none"> • Printing architecture • Printing configuration </td> <td style="vertical-align: top; width: 50%; border-left: 1px solid black;"> <p>System monitoring</p> <p>PAS-X MES communication</p> <ul style="list-style-type: none"> • ERP-interface – principles • Monitoring of the ERP interface <p>PAS-X MES client configuration</p> <ul style="list-style-type: none"> • Scale configuration • Client configuration </td> </tr> </table>		<p>System overview</p> <ul style="list-style-type: none"> • System architecture <p>User administration</p> <ul style="list-style-type: none"> • Management of users/user groups • Rights management <p>PAS-X MES GUI configuration</p> <p>Audit trail</p> <p>PAS-X MES printing/reporting</p> <ul style="list-style-type: none"> • Printing architecture • Printing configuration 	<p>System monitoring</p> <p>PAS-X MES communication</p> <ul style="list-style-type: none"> • ERP-interface – principles • Monitoring of the ERP interface <p>PAS-X MES client configuration</p> <ul style="list-style-type: none"> • Scale configuration • Client configuration
<p>System overview</p> <ul style="list-style-type: none"> • System architecture <p>User administration</p> <ul style="list-style-type: none"> • Management of users/user groups • Rights management <p>PAS-X MES GUI configuration</p> <p>Audit trail</p> <p>PAS-X MES printing/reporting</p> <ul style="list-style-type: none"> • Printing architecture • Printing configuration 	<p>System monitoring</p> <p>PAS-X MES communication</p> <ul style="list-style-type: none"> • ERP-interface – principles • Monitoring of the ERP interface <p>PAS-X MES client configuration</p> <ul style="list-style-type: none"> • Scale configuration • Client configuration 			

Available as



Recommended training for

- MBR Designer
- MES Engineer
- Project Manager

PAS-X MES SCADA Administration		TR-ADMIN-SCADA		
Training objectives	<ul style="list-style-type: none"> → Setting up, configuring and maintaining the PAS-X MES client system – the administrative perspective → Detailed knowledge of and skills in setting up and connecting PAS-X MES to external systems for automatic data exchange (Scada, DCS) 			
Target audience	Key users as automation engineers, system administrators as well as recipe designers.			
Required qualifications	mandatory –	optional Basic training		
Required equipment	Laptop			
Duration	2 days /09:00 a.m. – 05:00 p.m.			
Language	English			
Certification valid for	2 years			
Training content	<table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top; width: 50%;"> <p>Introduction to SCADA (OPC) Integration</p> <ul style="list-style-type: none"> • Concepts of process control integration (PCS) • PCS system setup • Communication monitoring within PAS-X MES </td> <td style="vertical-align: top; width: 50%;"> <p>PCS MBR elements</p> <ul style="list-style-type: none"> • Setup of PCS MBR elements • PCS recipe information within PAS-X MES • Concept and usage of aliasing • Configuration of state machines • Synchronization of level 2 systems and PAS-X MES • Using state mapping to drive state transitions • Authoring of PCS MBR elements • Recipe execution with PCS MBR elements </td> </tr> </table>		<p>Introduction to SCADA (OPC) Integration</p> <ul style="list-style-type: none"> • Concepts of process control integration (PCS) • PCS system setup • Communication monitoring within PAS-X MES 	<p>PCS MBR elements</p> <ul style="list-style-type: none"> • Setup of PCS MBR elements • PCS recipe information within PAS-X MES • Concept and usage of aliasing • Configuration of state machines • Synchronization of level 2 systems and PAS-X MES • Using state mapping to drive state transitions • Authoring of PCS MBR elements • Recipe execution with PCS MBR elements
<p>Introduction to SCADA (OPC) Integration</p> <ul style="list-style-type: none"> • Concepts of process control integration (PCS) • PCS system setup • Communication monitoring within PAS-X MES 	<p>PCS MBR elements</p> <ul style="list-style-type: none"> • Setup of PCS MBR elements • PCS recipe information within PAS-X MES • Concept and usage of aliasing • Configuration of state machines • Synchronization of level 2 systems and PAS-X MES • Using state mapping to drive state transitions • Authoring of PCS MBR elements • Recipe execution with PCS MBR elements 			

Available as



Recommended training for

→ Label Designer

PAS-X MES Reports & Labels Administration		TR-ADMIN-REP		
Training objectives	<ul style="list-style-type: none"> → Setting up, configuring and maintaining the PAS-X MES client system – the administrative perspective → Detailed knowledge of and skills in setting up and configuring the report management in PAS-X MES, including Crystal Reports and related SQL queries → Using PAS-X in real-life scenarios 			
Target audience	Administrators of the PAS-X MES system.			
Required qualifications	mandatory	optional		
	–	Basic training		
Required equipment	Laptop			
Duration	2 days / 09:00 a.m. – 05:00 p.m.			
Language	English			
Certification valid for	2 years			
Training content	<table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top; width: 50%;"> <p>Introduction</p> <ul style="list-style-type: none"> • Basics of reporting • Using SQL • Basics of crystal report <p>Label design</p> <ul style="list-style-type: none"> • Data model for labels • Label design with crystal report • Printing configuration </td> <td style="vertical-align: top; width: 50%; border-left: 1px solid black;"> <p>Batch Record Report</p> <ul style="list-style-type: none"> • Data model for batch report • Batch Record Report design • Printing configuration </td> </tr> </table>		<p>Introduction</p> <ul style="list-style-type: none"> • Basics of reporting • Using SQL • Basics of crystal report <p>Label design</p> <ul style="list-style-type: none"> • Data model for labels • Label design with crystal report • Printing configuration 	<p>Batch Record Report</p> <ul style="list-style-type: none"> • Data model for batch report • Batch Record Report design • Printing configuration
<p>Introduction</p> <ul style="list-style-type: none"> • Basics of reporting • Using SQL • Basics of crystal report <p>Label design</p> <ul style="list-style-type: none"> • Data model for labels • Label design with crystal report • Printing configuration 	<p>Batch Record Report</p> <ul style="list-style-type: none"> • Data model for batch report • Batch Record Report design • Printing configuration 			

Available as



Recommended training for

→ All Software Key Users

PAS-X MES Track & Trace Basic		TR-FP-TT				
Training objectives	<ul style="list-style-type: none"> → Detailed knowledge of and skills in setting up, configuring and using the Track & Trace software → Using Track & Trace in real-life scenarios 					
Target audience	Key users as team leaders and production leads.					
Required qualifications	<table border="1"> <thead> <tr> <th>mandatory</th> <th>optional</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>-</td> </tr> </tbody> </table>	mandatory	optional	-	-	
mandatory	optional					
-	-					
Required equipment	Laptop					
Duration	1 day / 09:00 a.m. – 05:00 p.m.					
Language	English					
Certification valid for	2 years					
Training content	<ul style="list-style-type: none"> • Concept of serialization • PAS-X Track & Trace – features and architecture • User interface • Dialog overview • Process order workflow 					

Available as



Recommended training for

- All Software Key Users
- Administrators

PAS-X MES Track & Trace Administration		TR-ADMIN-TT
Training objectives	<ul style="list-style-type: none"> → Setting up, configuring and maintaining the PAS-X MES client system – the administrative perspective → Detailed knowledge of and skills in setting up and connecting PAS-X MES Track & Trace and line controller as well as configuring and monitoring the connection → Using PAS-X MES X in real-life scenarios 	
Target audience	Administrators of the PAS-X system.	
Required qualifications	mandatory	optional
	–	Basic training
Required equipment	Laptop	
Duration	1 day /09:00 a.m. – 05:00 p.m.	
Language	English	
Certification valid for	2 years	
Training content	<ul style="list-style-type: none"> • Configuration • User/Rights management • Audit trail • Control data • Background processes • Monitoring • Interfaces 	

Available as



Recommended training for

→ System Administrators

PAS-X MES Monitoring Basic

ETR-BAS-MONI

Training objectives

- Detailed knowledge of and skills in using the Monitoring Tool
- Enablement for troubleshooting and configuring the Tool

Target audience

Administrators of the PAS-X system.

Required qualifications

Basic understanding of PAS-X MES.

Required equipment

Laptop

Duration

2 hours

Language

English

Certification valid for

2 years

Training content

Monitoring Basic Training

- Introduction to the PAS-X Monitoring Tool
- User management and rights assignment
- Configuring nodes and sensors
- Alert configuration
- Handling alerts and errors
- Visualizing collected data
- Analyzing information based on scenarios

PAS-X MES

End user trainings

Available as



Recommended training for

- Shop Floor Operator
- Manufacturing Supervisor
- Shop Floor QA

PAS-X MES Basic for End User		ETR-EUT-BAS				
Training objectives	<ul style="list-style-type: none"> → Learn about main functions of PAS-X MES → Learn how to access the system and search for relevant information 					
Target audience	End users as Operator, Project Manager, QA, MBR Designer, System Administrator.					
Required qualifications	<table border="1"> <thead> <tr> <th>mandatory</th> <th>optional</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>-</td> </tr> </tbody> </table>	mandatory	optional	-	-	
mandatory	optional					
-	-					
Required equipment	Laptop					
Duration	1 hour					
Language	English, Danish					
Certification valid for	2 years					
Training content	<p>Basic for End User</p> <ul style="list-style-type: none"> • PAS-X Concept • Overview and key features of a MES • Access to the System • User Interface and Dialogs • Filters and Relevant Information in the System • PAS-X Demonstration 					

Available as



Recommended training for

- Shop Floor Operator
- Manufacturing Supervisor
- Shop Floor QA

PAS-X MES Electronic Batch Record Execution for End User		ETR-EUT-EBR
Training objectives	<ul style="list-style-type: none"> → How to create Manufacturing Orders with their according Shop Floor Orders which trigger the execution of an Electronic Batch Record. → How to execute Shop Floor Orders 	
Target audience	End users as Operator, Project Manager, QA, MBR Designer, System Administrator.	
Required qualifications	mandatory	optional
	Basic for End User	-
Required equipment	Laptop	
Duration	1 hour	
Language	English, Danish	
Certification valid for	2 years	
Training content	<p>Electronic Batch Record Execution</p> <ul style="list-style-type: none"> • Introduction to Electronic Batch Records • Manufacturing Orders • Shop Floor Orders • PAS-X System Demonstration & Practical Exercise 	

Available as



Recommended training for

- Shop Floor Operator
- Manufacturing Supervisor
- Shop Floor QA

PAS-X MES Batch Record Review and Approval for End User		ETR-EUT-BBR
Training objectives	<ul style="list-style-type: none"> → Detailed overview of Batch Records and the review process → How is a Batch record created and what steps are necessary in order to release it → How to navigate within the In tray to process approval tasks 	
Target audience	End users as Operator, Project Manager, QA, MBR Designer, System Administrator.	
Required qualifications	mandatory	optional
	Basic for End User	-
Required equipment	Laptop	
Duration	1 hour	
Language	English, Danish	
Certification valid for	2 years	
Training content	<p>Batch Record Review and Approval</p> <ul style="list-style-type: none"> • Finishing of Manufacturing & Shop Floor Orders • Batch Records • Exceptions • External Documents • Batch Record Review • Approval Workflow • PAS-X Demonstration 	

Available as



Recommended training for

- Shop Floor Operator
- Manufacturing Supervisor
- Shop Floor QA
- MBR Designer

PAS-X MES MBR Design for End User		ETR-EUT-MBR
Training objectives	<ul style="list-style-type: none"> → Entry point to start and understand MBR design → Learn about the core functionality and processes related to the MBR design process on a high level without in-depth knowledge 	
Target audience	End users as Operator, Project Manager, QA, MBR Designer, System Administrator.	
Required qualifications	mandatory	optional
	Basic for End User	-
Required equipment	Laptop	
Duration	1 hour	
Language	English, Danish	
Certification valid for	2 years	
Training content	<p>MBR Designer</p> <ul style="list-style-type: none"> • Explain what a Master Batch Record (MBR) is • Define the structure of an MBR • Use the MBR designer to create an MBR • Understand equipment use in an MBR • Understand Material Flow in an MBR 	

Available as



Recommended training for

→ All Software Key Users

PAS-X Savvy **Basic**

Training objectives	<ul style="list-style-type: none"> → Navigation within PAS-X Savvy → General understanding of the functionality and usability of PAS-X Savvy → Data Visualization and Data Analysis approaches of my data → Result Reporting and Collaboration in PAS-X Savvy 	
Target audience	All users which are going to work with PAS-X Savvy, any roles.	
Required qualifications	mandatory	optional
	-	-
Required equipment	Laptop	
Duration	4 hours	
Language	English	
Certification valid for	2 years	
Training content	<ul style="list-style-type: none"> • Savvy Introduction • Savvy Glossary • Navigation within PAS-X Savvy • Filtering and finding the required data • Data Visualization • Data Analysis • Result Reporting 	

Available as



Recommended training for

- All Software Key Users
- Administrators

PAS-X Savvy Administration

Training objectives	<ul style="list-style-type: none"> → Detailed knowledge of PAS-X Savvy administration → Tracking data import and troubleshooting → User and access management 	
Target audience	Core users, team leaders and process experts.	
Required qualifications	mandatory PAS-X Savvy Basic training	optional -
Required equipment	Laptop	
Duration	3 hours	
Language	English	
Certification valid for	2 years	
Training content	<ul style="list-style-type: none"> • Access and Navigation in PAS-X Savvy Administration • Tracking data import and how to troubleshoot • Global System Settings • User Groups and User Management 	

Available as



Recommended training for

- Software Product Managers
- Data Scientists
- Programmers

PAS-X Savvy Programming

Training objectives	<ul style="list-style-type: none">→ Python programming in PAS-X Savvy→ Develop your own Algorithm→ Develop your own GUI	
Target audience	Data Scientist, Data Analysts	
Required qualifications	mandatory Python 3 (Numpy, Pandas, Ploty, statsmodel, Scipy)	optional SQL, REST API
Required equipment	Laptop	
Duration	4 – 8 hours	
Language	English	
Certification valid for	2 years	
Training content	Depending on request <ul style="list-style-type: none">• Introduction and using of Python API in PAS-X Savvy• Develop your own algorithm• Building a GUI to make developed algorithms accessible to other users• Sustainable algorithm development in PAS-X Savvy• Introduction of Savvy Python functions	

Instructor-led training schedule

Americas 2025

Training courses:
PAS-X V3.1.8 /
PAS-X V3.3

February	
Basic	
17–19	Remote, USA
System Administration	
20–21	Remote, USA
Professional Library Elements & GMBR	
24	Remote, USA
Professional MBR Design	
25	Remote, USA
Professional Material Flow	
26	Remote, USA
Professional Formulas	
27	Remote, USA
Professional Order Network & CX	
28	Remote, USA

April	
Basic	
31 March–02 April	Apex, NC, USA
System Administration	
03–04	Apex, NC, USA
Professional Library Elements & GMBR	
07	Apex, NC, USA
Professional EQ Management	
08	Apex, NC, USA
Professional Material Flow	
09	Apex, NC, USA
Professional Formulas	
10	Apex, NC, USA
Professional Order Network & CX	
11	Apex, NC, USA

June	
Basic	
02–04	Parsippany, NJ, USA
System Administration	
05–06	Parsippany, NJ, USA
Professional Library Elements & GMBR	
09	Parsippany, NJ, USA
Professional EQ Management	
10	Parsippany, NJ, USA
Professional Material Flow	
11	Parsippany, NJ, USA
Professional Formulas	
12	Parsippany, NJ, USA
Professional Order Network & CX	
13	Parsippany, NJ, USA
Reports & Labels Administration	
17–18	Parsippany, NJ, USA
Professional ERP Integration	
19	Parsippany, NJ, USA

August	
Basic	
11–13	Remote, USA
System Administration	
14–15	Remote, USA
Professional Library Elements & GMBR	
18	Remote, USA
Professional MBR Design	
19	Remote, USA
Professional Material Flow	
20	Remote, USA
Professional Formulas	
21	Remote, USA
Professional Order Network & CX	
22	Remote, USA

September	
Basic	
22–24	Apex, NC, USA
System Administration	
25–26	Apex, NC, USA
Professional Library Elements & GMBR	
29	Apex, NC, USA
Professional EQ Management	
30	Apex, NC, USA

October	
Professional Material Flow	
01	Apex, NC, USA
Professional Formulas	
02	Apex, NC, USA
Professional Order Network & CX	
03	Apex, NC, USA
SCADA Administration	
07–08	Apex, NC, USA
Professional MSI	
09	Apex, NC, USA
SCADA Professional MBR Design	
10	Apex, NC, USA

November	
Basic	
03–05	Parsippany, NJ, USA
System Administration	
06–07	Parsippany, NJ, USA
Professional Library Elements & GMBR	
10	Parsippany, NJ, USA
Professional MBR Design	
11	Parsippany, NJ, USA
Professional Material Flow	
12	Parsippany, NJ, USA
Professional Formulas	
13	Parsippany, NJ, USA
Professional Order Network & CX	
14	Parsippany, NJ, USA

Instructor-led training schedule

Asia 2025



March

Basic	
03-05	Remote
Professional Material Flow	
06	Remote
Professional EQ Management	
07	Remote
Professional Formulas	
10	Remote
Professional Order Network & CX	
11	Remote
Professional MBR Design	
12	Remote
Professional Library Elements & GMBR	
13	Remote
System Administration	
17-18	Remote
Basic	
24-26	Tokyo, Japan
Professional Material Flow	
27	Tokyo, Japan
Professional EQ Management	
28	Tokyo, Japan

April

Professional Formulas	
08	Tokyo, Japan
Professional Order Network & CX	
09	Tokyo, Japan
Professional MBR Design	
10	Tokyo, Japan
Professional Library Elements & GMBR	
11	Tokyo, Japan
System Administration	
15-16	Tokyo, Japan

September

Basic	
01-03	Remote
Professional Material Flow	
04	Remote
Professional EQ Management	
05	Remote
Professional Formulas	
09	Remote
Professional Order Network & CX	
10	Remote
Professional MBR Design	
11	Remote
Professional Library Elements & GMBR	
12	Remote
System Administration	
15-16	India
Professional ERP Integration	
17	India
Basic	
17-19	Tokyo, Japan
Professional Material Flow	
25	Tokyo, Japan
Professional EQ Management	
26	Tokyo, Japan
Professional Formulas	
30	Tokyo, Japan

October

Professional Order Network & CX	
01	Tokyo, Japan
Professional MBR Design	
02	Tokyo, Japan
Professional Library Elements & GMBR	
03	Tokyo, Japan
System Administration	
07-08	Tokyo, Japan

Instructor-led training schedule

Europe 2025



February

Basic	
17–19	Remote, Ireland
Professional MBR Design	
20	Remote, Ireland
Professional Library Elements & GMBR	
24	Remote, Ireland
Professional EQ Management	
25	Remote, Ireland
Professional Material Flow	
26	Remote, Ireland
Professional Formulas	
27	Remote, Ireland
Professional Order Network & CX	
28	Remote, Ireland

March

System Administration	
03–04	Remote, Ireland
Basic	
10–12	Lüneburg, Germany
Professional ERP Integration	
13	Lüneburg, Germany
Professional MBR Design	
14	Lüneburg, Germany
Professional Library Elements & GMBR	
17	Lüneburg, Germany
Professional EQ Management	
18	Lüneburg, Germany
Professional Material Flow	
19	Lüneburg, Germany
Professional Formulas	
20	Lüneburg, Germany
Professional Order Network & CX	
21	Lüneburg, Germany
System Administration	
24–25	Lüneburg, Germany

June

Basic	
16–18	Lüneburg, Germany
Professional ERP Integration	
19	Lüneburg, Germany
Professional MBR Design	
20	Lüneburg, Germany
Professional Library Elements & GMBR	
23	Lüneburg, Germany
Professional EQ Management	
24	Lüneburg, Germany
Professional Material Flow	
25	Lüneburg, Germany
Professional Formulas	
26	Lüneburg, Germany
Professional Order Network & CX	
27	Lüneburg, Germany
System Administration	
30–01 July	Lüneburg, Germany

September

Basic	
01–03	Lüneburg, Germany
Professional ERP Integration	
04	Lüneburg, Germany
Professional MBR Design	
05	Lüneburg, Germany
Professional Library Elements & GMBR	
08	Lüneburg, Germany
Professional EQ Management	
09	Lüneburg, Germany
Professional Material Flow	
10	Lüneburg, Germany
Professional Formulas	
11	Lüneburg, Germany
Professional Order Network & CX	
12	Lüneburg, Germany
System Administration	
15–16	Lüneburg, Germany
Basic	
29–01 October	Remote, Ireland

October

Professional MBR Design	
02	Remote, Ireland
Professional Library Elements & GMBR	
06	Remote, Ireland
Professional EQ Management	
07	Remote, Ireland
Professional Material Flow	
08	Remote, Ireland
Professional Formulas	
09	Remote, Ireland
Professional Order Network & CX	
10	Remote, Ireland
System Administration	
13–14	Remote, Ireland

November

Basic	
17–19	Lüneburg, Germany
Professional ERP Integration	
20	Lüneburg, Germany
Professional MBR Design	
21	Lüneburg, Germany
Professional Library Elements & GMBR	
24	Lüneburg, Germany
Professional EQ Management	
25	Lüneburg, Germany
Professional Material Flow	
26	Lüneburg, Germany
Professional Formulas	
27	Lüneburg, Germany
Professional Order Network & CX	
28	Lüneburg, Germany

December

System Administration	
01–02	Lüneburg, Germany

Blended Basic training schedule

Europe 2025

Training
courses:
PAS-X V3.3

January
Blended Basic
31  Remote, Germany

April
Blended Basic
04  Remote, Germany

July
Blended Basic
04  Remote, Germany

October
Blended Basic
17  Remote, Germany

March
Blended Basic
07  Remote, Germany

May
Blended Basic
09  Remote, Germany

August
Blended Basic
01  Remote, Germany

November
Blended Basic
14  Remote, Germany

June
Blended Basic
06  Remote, Germany

Blended Basic
29  Remote, Germany

Your PAS-X MES training team

Well-trained and qualified users thanks to our experienced subject matter experts.

Europe

Germany



Sarah Zimmer
Head of Business
Consulting

Language: English,
German



Rana Mousa
Manager End User
Training

Language: English,
German



Philipp Bochert
Senior Trainer

Language: English,
German



Svenja Griewaldt
Senior Trainer &
Consultant

Language: English,
German



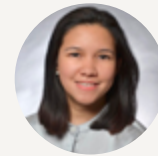
Michel Eberhardt
Senior Trainer

Language: English,
German



Tomas Lenton
Trainer

Language: English



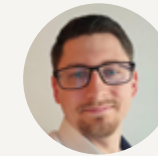
Ana de la Rosa Bosch
Associate Trainer

Language: English



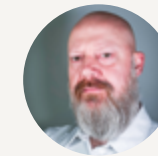
Michael Hentschel
Consultant & Trainer

Language: English,
German



Lukasz Michulec
Senior Consultant –
Team Lead

Language: English,
Polish



Kamil Prus
Senior Trainer

Language: English,
Polish

Ireland

Your PAS-X MES training team

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France



Alexis Rouquette
Senior Consultant

Language: French,
English



Javier Heras
Senior Consultant

Language: English,
Spanish, Catalan



Jérémy Doré
Consultant

Language: French,
English



Louis Delaplace
Consultant

Language: French,
English

Your PAS-X MES training team

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North America



Kristi Korson
Head of Training

Language: English



Brandon Gabany
Senior Trainer

Language: English



Keri Murphy
Senior Trainer

Language: English



Mike Bani
Senior Trainer

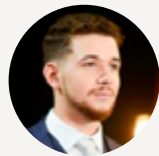
Language: English

Latin America



Marcio Vilas Boas
Trainer & Senior Consultant

Language: English,
Portuguese-BR, Spanish



Flávio Silva
Trainer & Consultant

Language: English,
Portuguese-BR, Spanish



Cayo Guiné
Trainer & Consultant

Language: English,
Portuguese-BR

Your PAS-X MES training team

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Thailand



Sariya Dechamethakun (Gig)
Consultant & Trainer

Language: English, Thai, Japanese



Chayut Vaikasi (Gap)
Trainer & Consultant

Language: English, Thai

China



Amy Wang
Senior Consultant & Trainer

Language: English, Mandarin



Dara Wang
Trainer & Project Engineer

Language: English, Mandarin

India



Gowthamapriya Palanisamy (Priya)
Trainer & Consultant

Language: English, Hindi



Manish Kumar
Trainer & System Engineer

Language: English, Hindi



Rafhat Shaikh
Project Engineer & Trainer

Language: English, Hindi

Japan



Martin Brillowski
General Manager

Language: English, German



Takanobu Amano
Trainer & MES Consultant

Language: English, Japanese



Eiji Miyamoto
MES Trainer

Language: English, Japanese

Our locations

