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koerber-pharma.com/en/services/academy

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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.



We herewith confirm that

John Doe

has successfully participated in the training PAS-X MES Basic

This certificate is personalized, not transferable and only valid for the respective trained PAS-X Version and expires 24 months after the date of issue.

Contents of this training:

- · PAS-X Concept & User Interface
- · Central Login
- · Master Data Management
- Equipment
- Material

- · Master Batch Records
- MRR Designer
- System Libraries - Material Flow
- Use of Equipment
- · Electronic Batch Recording
- · Exception Handling
- · Batch Record Review & Release



Lüneburg, 22/11/2023



From Key User to End User training

+3.250
people trained
globally
(2023)

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.

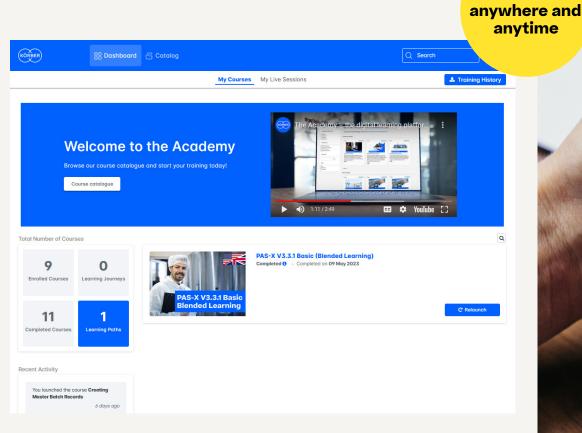
Training / PAS-X MES implementation timeline

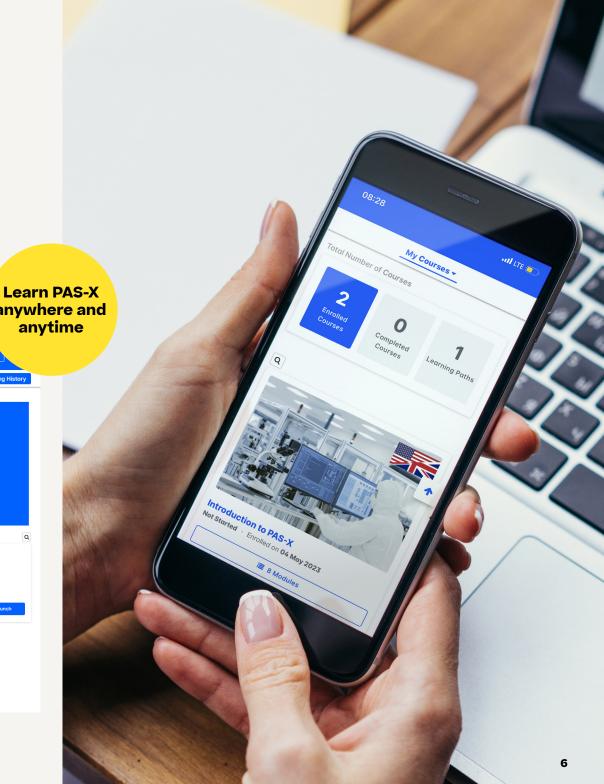
Go-live

PAS-X Version update / Refresher trainings

Digital training platform

academy.koerber-pharma.com





Key User specific training

PAS-X MES training

MBR Desinger / 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

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





Tailored End User training

Shop floor Operator

- End User Basic Training
- Operator Training

Manufacturing Supervisor

- End User Basic Training
- Supervisor Training

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.

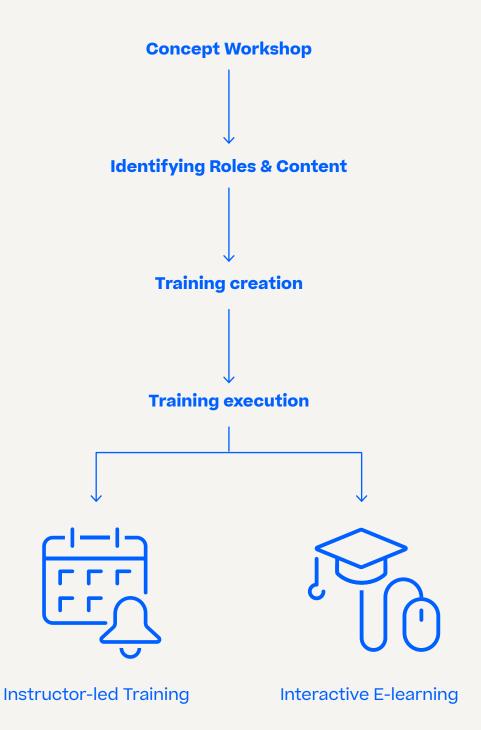
Shop floor QA

- End User Basic Training
- Shop floor QA Training

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









Recommended training for

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

Training abicatives	→ General knowledge of and skills in using PAS-X MES, modeling processe		
Training objectives	 → General knowledge of and skills in using PAS-X MES, modeling process 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	PAS-X MES conceptPAS-X MES product concept	Master Batch Record – re workflow	elease
	User interface Overview of the general structure of the user interface Dialogs & forms Use of filters Master data management Equipment management & material master data Master Batch Record - management Concept and structure Basic recipe MBR designer Creating recipes Bill of material Material flow concept & use of equipment	Electronic Batch Recordi EBR Order Management Recipe execution Exception handling Batch Record Review Exception Review Review of critical param Batch Record release	







Recommended training for

→ Quality Manager

PAS-X MES Basic fo	N 04		TR-BAS-QA
Training objectives	 → 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, super	visors and head of prod	duction.
Required qualifications	mandatory	optional	
quantications	-	_	
Required equipment	Laptop		
Duration	2 days /09:00 a.m. – 05:00 p.m.		
Language	English		
Certification valid for	2 years		
Training content	Quality Assurance with PAS-X 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		







Recommended training for

- → MBR Designer→ MES Engineer

Training objectives	→ Detailed knowledge of and s	kills in weighing and dispen	sing of materials
Training objectives	the context of the MBR mod → Usage of PAS-X MES in real I	deling and EBR execution p	
Target audience	Key users as recipe designers, s	supervisors and team leader	rs.
Required qualifications	mandatory	optional	
quanneations	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	Weighing recipe & administration • Bill of material • Container Management • Weighing configuration Weighing preparation • Prepare production • Shop floor order dialog • Material item setting	Weighing recipe ex Different weighing Manual take-out Weighing procedu Material takeouts Yield weighing Post-weighing act Inventory adjustm Takeout log inform Managing materia Alosses	g modes ures i vities nent nation







Recommended training for

- → MBR Designer→ MES Engineer

	Defetication 1 1 C 1 1		
raining objectives	→ Detailed knowledge of and skills in using the material flow within PAS-> MES		
	→ Using PAS-X in real-life scenarios		
Target audience	Key users as recipe designers, su	pervisors and team leaders.	
Required	mandatory	optional	
qualifications	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	Material management • Material master data • Handling unit management • Work in process material	Material flow within MBRs • Design material flow • Material quantification types • Hand over material • Holding time • Automated material flow functions	







Recommended training for

- → MBR Designer→ MES Engineer

PAS-X IVIES Profes	sional EQ Management		TR-PRO-EQM
Training objectives	 → Detailed knowledge of and skill well as reusable equipment → Using PAS-X MES in real-life sce 		sing equipment as
Target audience	Key users as recipe designers, supe	ervisors and team lead	ers.
Required	mandatory	optional	
qualifications	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	Equipment management • Equipment concept • Equipment specific properties • Equipment cleaning rules • State diagrams • Equipment logbook	Equipment usage Master Batch Rec Using the equipu Creating ESPs Defining equipm Automated equi functions	cord ment library nent list







Recommended training for

- → MBR Designer→ MES Engineer

Training objectives	 → 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, supe	rvisors and team lea	aders.
Required	mandatory	optional	
qualifications	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	Generic Master Batch Records Concept of generic master batch records Parameterization of GMBRs Managing parameter value lists Defining global parameters Life cycle management of GMBRs	Library adminis Library conce Creating librar elements Formula varial elements Using library e Life cycle man library elemen	pt ries and library ole in library lements lagement of







Recommended training for

- → MBR Designer→ MES Engineer

Training objectives	 → 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, super	visors and team leaders	S.
Required qualifications	mandatory	optional	
quannications	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	 Characteristics & Order Network Concept of CX and order network Data propagation using CX Administration of characteristics Defining characteristics (CX) Managing CX for equipment and material Maintaining characteristics 	Usage of characteri within recipes • Parameterization of characteristics • Using of CX basic f • Using CX within acc Recipe Execution us characteristics • Writing characteristics • Reviewing characteristics • Reviewing characteristics	of unction tivities sing stics







Recommended training for

- → MBR Designer→ MES Engineer

PAS-X MES Profess	sional Formulas		TR-PRO-FORM	
Training objectives	 → 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, sup	ervisors and team lea	aders.	
Required	mandatory	optional		
qualifications	Basic training	MBR design trair	ning	
Required equipment	Laptop			
Duration	1 day /09:00 a.m. – 05:00 p.m.			
Language	English	English		
Certification valid for	2 years			
Training content	Managing Formulas Overview of formula editor Formula verification in master batch record Using formulas for different use cases Formula simulation in batch execution			







Recommended training for

- → MBR Designer→ MES Engineer

7.6 7. WEST 10105	sional MBR Design		TR-PRO-MBI
Training objectives	 → 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, super personnel.	visors, team leaders a	and quality
Required	mandatory	optional	
qualifications	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	 Master Batch Record 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 	• Signal usage within workflow design	







Recommended training for

- → MBR Designer→ MES Engineer



PAS-X MES Profes	sional ERP Integration TR-PRO-ERP		
Training objectives	 → 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, superv	risors and team leader	'S
Required qualifications	mandatory Basic training	optional _	
Required equipment	Laptop		
Duration	1 day /09:00 a.m. – 05:00 p.m.		
Language	English		
Certification valid for	2 years		
Training content	 iDocs Master Data MBR Data Batch Data/Stock Process Orders External Parameters Notifications Other Message Types 		







Recommended training for

- → MBR Designer→ MES Engineer→ Automation Engineer

PAS-X MES SCADA	Professional MBR Design		TR-PRO-SCADA
Training objectives	 → 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 au	tomation engine	ers.
Required	mandatory	optional	
qualifications	Basic training	Formula trainin	g
Required equipment	Laptop		
Duration	1 day /09:00 a.m. – 05:00 p.m.		
Language	English		
Certification valid for	2 years		
Training content	SCADA (OPC) MBR Design 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		







Recommended training for

- → MBR Designer→ MES Engineer

Training objectives	 → 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 automatic designers	n engineers,	system administrators	as well as recipe
Required	mandatory	optional		
qualifications	Basic training	PAS-X MES formulas training PAS-X MES SCADA (OPC) MBR design training PAS-X MES SCADA (OPC) administration Trainin		
Required equipment	Laptop			
Duration	1 day /09:00 a.m. – 05:00 p.m.			
Language	English			
Certification valid for	2 years			
Training content	 Introduction of MSI: Concept of Level 2 integration Concept of message shopfloor integration MSI adapter configuration Communication monitoring as well as shooting 		Message administrates design: • Creation and admost message • Recipe design and of Interface BF • Discussion and desort use cases	ninistration







Recommended training for

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

Training objectives	 → 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, supe	ervisors and team leaders
Required	mandatory	optional
qualifications	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	Depending on the versions the content differs.	
	The delta between two PAS-X MES Versions is explained, this can include:	
	 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 	







Recommended training for

- → System Administrator→ MBR Designer→ MES Engineer

Training objectives			
.	 → 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 evironment → Using PAS-X MES in real-life scenarios 		
Target audience	Administrators of the PAS-X syster	n.	
Required	mandatory	optional	
qualifications	-	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	System overview		nmunication - principles the ERP interface nt configuration ration







Recommended training for

- → MBR Designer→ MES Engineer→ Project Manager

Training objectives	 → 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 recipe designers.	s, system administrators as well as	
Required	mandatory	optional	
qualifications	-	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	Introduction to SCADA (OPC) Integration • Concepts of process control integration (PCS) • PCS system setup • Communication monitoring within PAS-X MES	PCS MBR elements 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	







Recommended training for

→ Label Designer

Training objectives	 → 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 repor 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 sys	tem.	
Required qualifications	mandatory	optional	
quanneations	-	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	Introduction Basics of reporting Using SQL Basics of crystal report Label design Data model for labels Label design with crystal report Printing configuration	Batch Record R Data model fo Batch Record Printing config	r batch report Report design







Recommended training for

→ All Software Key Users

Training objectives	 → 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 ar	nd production leads.	
Required qualifications	mandatory	optional	
quamications	-	_	
Required equipment	Laptop		
Duration	1 day /09:00 a.m. – 05:00 p.n	า.	
Language	English		
Certification valid for	2 years		
Training content	 Concept of serialization PAS-X Track & Trace – fea and architecture User interface Dialog overview Process order workflow 	tures	







Recommended training for

- → All Software Key Users→ Administrators

PAS-X MES Track 8	R Trace Administration		TR-ADMIN-TT
Training objectives	 → 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	
quannications	-	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	 Configuration User/Rights management Audit trail Control data Background processes Monitoring Interfaces 		







Recommended training for

→ All Software Key Users

Training objectives	 → 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	 Savvy Introduction Savvy Glossary Navigation within PAS-X Filtering and finding the required data Data Visualization Data Analysis Result Reporting 	Savvy







Recommended training for

- → All Software Key Users→ Administrators

Training objectives	→ Detailed knowledge of PAS-X Savvy administration		
Training Objectives	 → Tracking data import and troubleshooting → User and access management 		
Target audience	Core users, team leaders and p	rocess experts.	
Required qualifications	mandatory	optional	
quanneations	PAS-X Savvy Basic training	_	
Required equipment	Laptop		
Duration	3 hours		
Language	English		
Certification valid for	2 years		
Training content	 Access and Navigation in PAS Savvy Administration Tracking data import and ho troubleshoot Global System Settings User Groups and User Managment 	w to	







Recommended training for

- → Software Product Managers→ Data Scientists→ Programmers

Training objectives	 → Python programming in PAS-X Savvy → Develop your own Algorithm → Develop your own GUI 	
Target audience	Data Scientist, Data Analysts	
Required	mandatory	optional
qualifications	Python 3 (Numpy, Pandas, Ploty, statsmodel, Scipy)	SQL, REST API
Required equipment	Laptop	
Duration	4 – 8 hours	
Language	English	
Certification valid for	2 years	
Training content	 Depending on request 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

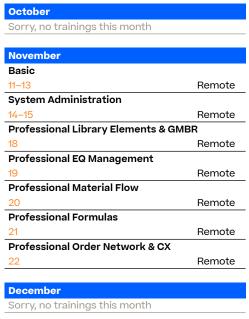
Americas 2024



January	
Basic	
22-24	Apex, NC, USA
System Administra	ation
25-26	Apex, NC, USA
Professional Libra	ry Elements & GMBR
29	Apex, NC, USA
Professional MBR	Design
30	Apex, NC, USA
Professional Mate	rial Flow
31	■ Apex, NC, USA
February	
Professional Form	ulas
01	■ Apex, NC, USA
Professional Orde	r Network & CX
02	■ Apex, NC, USA
_	
March	
Basic	
11–13	Parsippany, NJ, USA
System Administra	
14–15	Parsippany, NJ, USA
	ry Elements & GMBR
18	Parsippany, NJ, USA
Professional MBR	•
19	Parsippany, NJ, USA
Professional Mate	
20	■ Parsippany, NJ, USA
Professional Form	
21	Parsippany, NJ, USA
Professional Orde	r Network & CX ■ Parsippany, NJ, USA

April	
Sorry, no trainings this month	
May	
Basic	
06-08	Remote
System Administration	
09–10	Remote
Professional Library Elements & GM	IBR
13	Remote
Professional EQ Management	
14	Remote
Professional Material Flow	
15	Remote
Professional Formulas	
16	Remote
Professional Order Network & CX	
17	Remote
June	
Sorry, no trainings this month	





Instructor-led training schedule

Asia 2024



January					
Sorry, no trainings this month					
February					
Sorry, no trainings this month					
March					
Basic					
05-07	Remote				
Professional Material Flow					
12	Remote				
Professional EQ Management					
14	Remote				
Professional Library Elements & GMBR					
18	Remote				
Professional Formulas					
20	Remote				
Professional Order Network & CX					
22	Remote				
System Administration					
26–27	Remote				

April				
Sorry, no trainings this month				
May				
Sorry, no trainings this month				
June				
Basic				
17–19	Tokyo, Japan			
Basic				
18-20	Remote			
Professional EQ Management	t			
20	Tokyo, Japan			
Professional Material Flow				
21	Tokyo, Japan			
Professional Material Flow				
25	Remote			
Professional Library Element	s & GMBR			
25	Tokyo, Japan			
Professional MBR Design				
26	Tokyo, Japan			
Professional Formulas				
27	Tokyo, Japan			
Professional EQ Management				
27	Remote			
Professional Order Network & CX				
28	Tokyo, Japan			

July Destaction of MBD Design					
Professional MBR Desig					
01	Remote				
Professional Library Elements & GMBR					
03	Remote				
Professional Formulas					
05	Remote				
Professional Order Netv	work & CX				
09	Remote				
System Administration					
09–10	Tokyo, Japan				
Professional ERP Integr	ation				
11	Remote				
System Administration					
16–17	Remote				
August					
Sorry, no trainings this r	nonth				
September					
Basic					
30-02 October	Tokyo, Japan				

Professional EQ Managemen	τ				
03	Tokyo, Japan				
Professional Material Flow					
04	Tokyo, Japan				
Professional Library Elements & GMBR					
08	Tokyo, Japan				
Professional MBR Design					
09	Tokyo, Japan				
Professional Formulas					
10	Tokyo, Japan				
Professional Order Network & CX					
11	Tokyo, Japan				
System Administration					
22–23	Tokyo, Japan				
November					
Sorry, no trainings this month	1				
December					
Sorry, no trainings this month					

Instructor-led training schedule

System Administration

■ Lüneburg, Germany

Europe 2024



January April		April		July		October	
Sorry, no trainings this month		Basic		Sorry, no trainings this month		Sorry, no trainings this month	
		08-10	Lüneburg, Germany				
February		System Admir	nistration	August		November	
Basic		11-12	Lüneburg, Germany	Basic		Basic	
05-07	Lüneburg, Germany	Professional L	ibrary Elements & GMBR	26-28	Lüneburg, Germany	04-06	Lüneburg, Germany
Professional ERI	P Integration	15	Lüneburg, Germany	Professional ERP Integration System Administration		nistration	
08	Lüneburg, Germany	Professional E	Professional EQ Management 29 Lünel		Lüneburg, Germany	07−08 ■ Lüneburg, Germany	
Professional MBR Design		16	Lüneburg, Germany	Professional M	IBR Design	Professional L	ibrary Elements & GMBR
09	Lüneburg, Germany	Professional N	Material Flow	30	Lüneburg, Germany	11	💳 Lüneburg, Germany
Professional Lib	rary Elements & GMBR	17	Lüneburg, Germany			Professional E	Q Management
12	Lüneburg, Germany	Professional F	Formulas	September		12	Lüneburg, Germany
Professional EQ	Management	18	Lüneburg, Germany	Professional L	ibrary Elements & GMBR	Professional N	//aterial Flow
13	Lüneburg, Germany	Professional (Order Network & CX	02	Lüneburg, Germany	13	Lüneburg, Germany
Professional Ma	Professional Material Flow		Lüneburg, Germany	Professional E	Q Management	Professional F	Formulas
14	Lüneburg, Germany			03	Lüneburg, Germany	14	💳 Lüneburg, Germany
Professional For	mulas	May		Professional M	laterial Flow	Professional C	Order Network & CX
15	💳 Lüneburg, Germany	Sorry, no train	ings this month	04	Lüneburg, Germany	15	💳 Lüneburg, Germany
Professional Ord	der Network & CX			Professional F	ormulas	Basic	
16	💻 Lüneburg, Germany	June		05	Lüneburg, Germany	25-17	💳 Lüneburg, Germany
System Adminis	tration	Basic		Professional O	rder Network & CX	Professional E	ERP Integration
19–20	Lüneburg, Germany	03-05	Lüneburg, Germany	06	Lüneburg, Germany	28	Lüneburg, Germany
		Professional ERP Integration		System Administration		Professional MBR Design	
March		06	Lüneburg, Germany	09–10	Lüneburg, Germany	29	Lüneburg, Germany
Basic		Professional N	MBR Design	Basic			
04-06	■ Cork/Dublin, Ireland	07	Lüneburg, Germany	16–18	■ Cork/Dublin, Ireland	December	
System Adminis	tration	Professional L	ibrary Elements & GMBR	Professional E	Q Management	Professional L	ibrary Elements & GMBR
07-08	■ Cork/Dublin, Ireland	10	Lüneburg, Germany	19	■ Cork/Dublin, Ireland	02	Lüneburg, Germany
Professional Lib	rary Elements & GMBR	Professional E	Professional EQ Management Professional Material Flow		laterial Flow	Professional EQ Management	
11	■ Cork/Dublin, Ireland	11	Lüneburg, Germany	20	■ Cork/Dublin, Ireland	03	Lüneburg, Germany
Professional EQ Management Professional Material Flow		Material Flow	Professional Library Elements & GMBR		Professional Material Flow		
12	■ Cork/Dublin, Ireland	12	Lüneburg, Germany		■ Cork/Dublin, Ireland	04	Lüneburg, Germany
Professional Material Flow		Professional F		Professional M	IBR Design	Professional F	Formulas
13	■ Cork/Dublin, Ireland	13	Lüneburg, Germany	24		05	Lüneburg, Germany
Professional For		Professional (Order Network & CX	Professional F		Professional C	Order Network & CX
14	■ Cork/Dublin, Ireland	14	Lüneburg, Germany	25	■ Cork/Dublin, Ireland	06	💻 Lüneburg, Germany

Professional Order Network & CX

■ Cork/Dublin, Ireland

■ Cork/Dublin, Ireland

Professional Order Network & CX

Lüneburg, Germany

System Administration

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Europe



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Our locations

