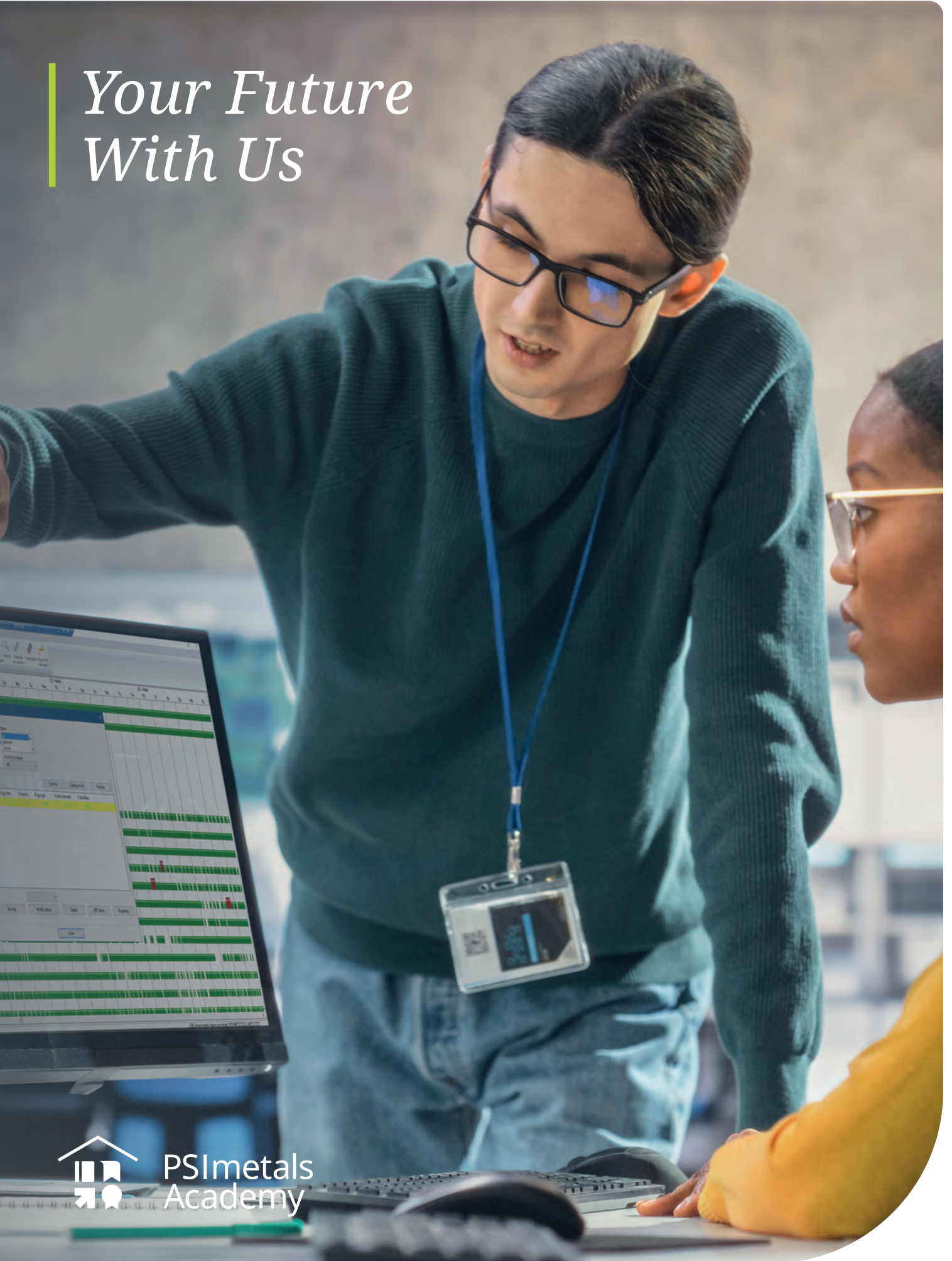# PSImetals Academy

Your Certification with PSImetals Academy

Training Catalog

PSI

Your Future With Us

PSImetals
Academy

Welcome to our Training Catalog

In this catalogue, you will discover a comprehensive selection of courses designed to prepare you to be a key player in the digital transformation of the metals industry.

Whether you are a meltshop or yard manager at the early or advanced stage in your career in the metals industry, our courses are carefully designed to equip you with the expertise necessary to support producers in implementing successful digital projects. A successful training in our Academy further positions you as a competent and trustworthy partner in our network.

We are pleased that you are taking this journey with us.

Roger Becker
PSImetals Certification
Program Manager

Testimonials of PSImetals Academy certification

Stelica Mihai
MES Domain Manager
Train 2 & Rodange

"After the Order Dressing Associate Course, became clear to me that we need to use PSImetals Order Dressing for ArcelorMittal Belval Mill 2.

PSImetals Order Dressing is a flexible and highly-configurable tool. When I am going into the specification phase for order dressing, I am much better prepared to discuss with our business users and SAP team."

Anke Kagelmacher
MES Project Manager
ArcelorMittal Hamburg

"I have been very much working with supply chain and also have good knowledge about production and quality. Order Dressing is a missing piece. The Order Dressing Associate Course has given me a very good overview about the tool. Due to the diverse configuration options, it offers an extremely wide range of default options / adjustments without code development. I found that very impressive and see great potential for use here."

PSImetals Academy Certification

Select Your Role

*PLA: The „Quality Manager PLA" course focuses exclusively on the planning aspect of quality targets (Order Dressing) and does not include execution tasks such as testing or evaluation.

PSI

PSImetals Academy Certification Principles

With this PSImetals certification package, partners and customers can become PSImetals experts!
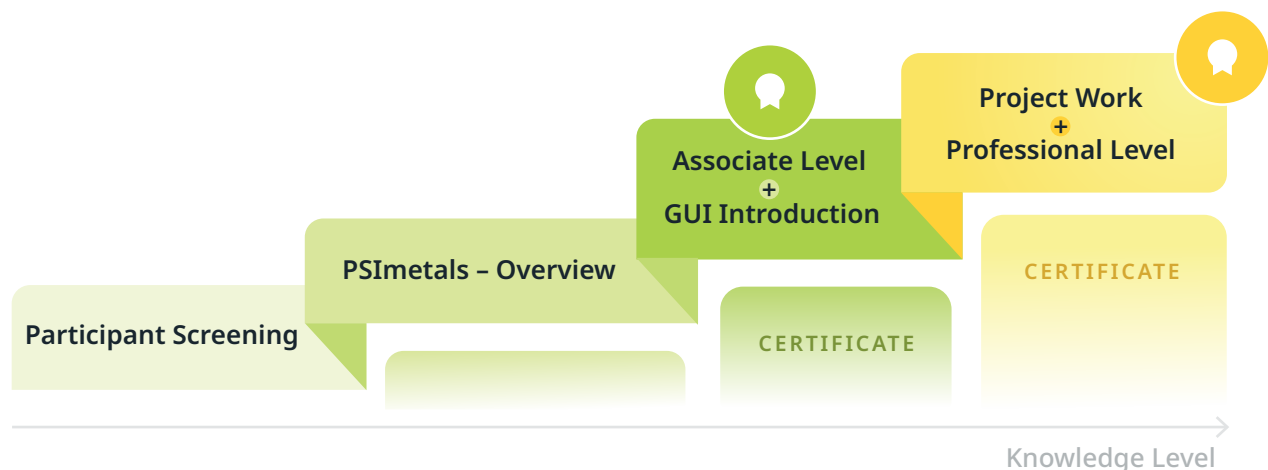
LICENSE CERTIFICATION

What participants will learn:

- The functions of PSImetals and how they work in a metals factory

- How to implement and configure PSImetals software

- How to translate the customer requirements into PSImetals software

- How to support commissioning and go-live

After an initial screening, all participants will begin with an introductory session on Process Industries and Metals. In the next step, after selecting a learning path, participants attend two Associate-level courses and receive their first certificates upon passing the corresponding exams. Each course awards one certificate.

With the Associate certificate in hand, the participant becomes eligible to attend the Professional level. This level combines on-the-job experience, such as working on a PSImetals project team, with practical on-site training to deepen their expertise.

Project Work
+
Professional Level

Associate Level
+
GUI Introduction

PSImetals – Overview

Participant Screening

CERTIFICATE

CERTIFICATE

Knowledge Level

1 **Participant Screening**

We support in selecting the right candidates for certification. If necessary, we interview candidates and make recommendations based on their qualifications.

The basic requirements are:

- General understanding of business processes in the steel or aluminum industry
- Experience in the field of Production Management Software (PMS)
- Reasonable English skills

2 **PSImetals Overview Webinar**

The certification program starts with a 1-day webinar as a general introduction to the world of PSImetals. The overview session will introduce the different modules of PSImetals and their components.

Webinar details:

- Duration: 1 training day
- Language: English
- Max. participants: 8

- Exam: No
- Format: Online

3 **Associate Level**

For Associate Certification, participants are required to complete at least one Associate course, with **two courses recommended**, and pass the exam for each course.

Course details:

- Type: On-site or online
- Duration: 3 to 5 training days
- Language: English
- Max. participants: 8 (minimum 4)

- Method: Theoretical overview, hands-on training within Metals Virtual Factory (MVF)
- Exam: Yes

+ **GUI Introduction (Non-planning Course)[*2]**

E-learning course that the participants need to pass to be prepared for the on-site[*1] training.

Course details:

- Type: E-learning
- Duration: 5 days
- Language: English
- Max. participants: 8 (minimum 4)

- Method: Theoretical overview, hands-on training within Metals Virtual Factory
- Exam: Yes

[*1] typically refers to training at a PSI location, not at the customer's location.
[*2] The Java GUI introduction is relevant only for the Office GUI used in Production, Quality, and Order Dressing. Planning tools utilize different interfaces (e.g., C++, others), making the Java GUI section inapplicable to those tools.

4 **Professional Level**

For Professional Certification, participants are required to complete at least one Professional course after finishing of an Associate course.

Course details:

- Type: On-site or online
- Duration: 4 to 8 training days
- Language: English
- Max. participants: 8 (minimum 4)

- Method: Theoretical overview, hands-on training within Metals Virtual Factory
- Exam: Yes

Certification

Congrats! Now the participant is a certified PSImetals expert!

How to Become Certified

To begin this process, choose a role that corresponds with your desired career path.

1 | **Who does the participant want to become**

Melt Shop Manager

Production & Quality Manager

Quality Manager PLA

Yard Manager

Production Planner

Production Scheduler

Solution Engineer*

2 | **The participant selects the courses to reach their goals**

Select two Associate-level courses and one Professional-level course to achieve the goal of the chosen future role.

2 x Associate Courses **+** **1 x Professional Course**

*Exception for **Solution Engineer**: Select 4 x Associate-level courses for completion

4 x Associate Courses

During the learning phase, the participant will get access to our sandbox system **Metals Virtual Factory (MVF)**. This cloud-based solution provides a virtual representation of a typical production environment, and allows the participant to further gain experience with PSImetals thereby deepening the content learned so far.

3 | **Certificate**

Congratulations! The participants reached their goal. Now, they have the 'license' to run their business successfully.

Develop
Skills

All Programs Offered for Certification

Certification (ILT*) *ILT - Instructor led training	Course		
Melt Shop Manager	**Associate Course 1**	Melt Shop Operator	●
	Associate Course 2	Free to choose from Associate	◆
	Professional Course	Melt Shop Configurator	●
Production & Quality Manager	**Associate Course 1**	Production & Quality Operator	●
	Associate Course 2	Free to choose from Associate	◆
	Professional Course	Production & Quality Configurator	●
Quality Manager PLA	**Associate Course 1**	Quality Planner	●
	Associate Course 2	Free to choose from Associate	◆
	Professional Course	Order Dressing Configurator	●
Yard Manager	**Associate Course 1**	Yard Operator	●
	Associate Course 2	Free to choose from Associate	◆
	Professional Course	Transport & Yard Configurator	●
Production Planner	**Associate Course 1**	Production Planning Operator	●
	Associate Course 2	Free to choose from Associate	◆
	Professional Course	Production Planning Configurator	●
Production Scheduler	**Associate Course 1**	Production Scheduling Operator	●
	Associate Course 2	Free to choose from Associate	◆
	Professional Course	Production Scheduling Configurator	●
Solution Engineer	**Associate Course 1**	Business Logic Configuration	◆
	Associate Course 2	UI/UX Design	●
	Associate Course 3	Communication & Interfaces	●
	Associate Course 4	Your Choice	●

● Need to attend this cource   ◆ Additional cource of your choice (Associate course)

Associate Course Overview

Course	Exam	Duration	
Melt Shop Operator	✔	3 days	Training covers heat production order generation, raw material calculation and preparation, execution, including quality decisions, and post-production processes, ensuring thorough understanding of these crucial manufacturing stages.
Production & Quality Operator	✔	5 days	Offers training in line preparation, staging, execution, post-production, and shipping, alongside specialized knowledge to analyze process data, identify improvement opportunities, and optimize manufacturing efficiency and quality control.
Quality Planner	✔	4 days	Participants learn how to specify sales order quality, plan test requirements, execute quality assessments after production and create charts to visualize data, ensure process optimization and compliance.
Yard Operator	✔	5 days	This course exposes participants to material receipt, material pre-staging and staging, goods issue by shipping & special knowledge to manage exceptional situations in the coil yard.
Production Planner	✔	4 days	Training covers sales & operations planning, order and forecast management, flow and order planning for production, ensuring the achievement of an optimal production plan.
Production Scheduler	✔	5 days	Participants learn about order scheduling, piece-by-piece scheduling for casters, rolling mills, and finishing lines in order to optimize production, minimize fluctuations, and ensure on-time deliveries.
Business Logic Configuration	✔	5 days	This covers the fundamentals of PLSQL within PSImetals, allowing for custom logic development. It includes key features like inter-process communication, parameters, logging, and the Rule Engine's role in optimizing quality and logistics processes.
UI/UX Design	✔	5 days	Engages participants by configuring screens to meet business needs, customizing Java GUI interfaces, and creating action buttons with PSImetals tools. Manage access using PSIauth for user permissions.
Communication & Interfaces	✔	5 days	Enhance PSImetals standard telegrams with custom parameters or create your own, and understand data transfer and action triggers. Learn to set up report printing in various formats.

- Type: On-site or online
- Duration: 3 to 5 training days
- Language: English
- Exam: Yes

- Max. participants: 8 (minimum 4)
- Method: Theoretical overview, hands-on training within Metals Virtual Factory (MVF)

Roles & Webinar Overview

Professional Course Overview

Course	Exam	Duration	
Melt Shop Configurator	✓	5 days	• Advanced configuration of treatment practices • Consolidation of deviation management • Scrap and alloy calculation module • Details of templates for L2 standard interfaces
Production & Quality Configurator	✓	4 days	• Configuration of production tracking master data • Production order balancing • Advanced process data acquisition • Material events and genealogy • Advanced quality management including configuration and use of quality indicators
Order Dressing Configurator	✓	5 days	• Advanced configuration of the Business Knowledge Base (Products, material transformations, derivation tables) • Advanced technical elaboration including production order combination • Interfaces to SAP and Production Order Lifecycle (POL)
Transport & Yard Configurator	✓	4 days	• Advanced Yard control, destination finding and route finding configuration • Coordinate tracking with Crane Tracking System (CTS) interface • Advanced transport management
Production Planning Configurator	✓	8 days	• Configuration for possible use cases • Design of product families and production network • Design for scenario planning & scenario comparisons • User interface configuration • Solver configuration & tuning • Input & output data interface design
Production Scheduling Configurator	✓	8 days	• Process design and possible use cases • User interface configuration • Solver configuration & tuning • Input & output data interface design

Course Details

- Type: On-site or online
- Duration: 4 to 8 training days
- Language: English
- Exam: Yes

- Max. participants: 8 (minimum 4)
- Method: Theoretical overview, hands-on training within Metals Virtual Factory

*Your Future
With Us*

Certification

Melt Shop Manager

Program Overview

Participants begin the Melt Shop Manager program by learning the terminology, concepts, and screens that make up the core of the Steel Making Plant (SMP), component of PSImetals Production & Quality Liquid. Under the Associates Course, they will also learn the concepts behind schedule execution management and online heat scheduling, understanding how to manage schedules of heats and plan for production at the caster. In the case of online heat scheduling, participants will be able to visualize the production at the melt shop and react effectively to changes within the mill. They will also learn how to monitor a heat production throughout the melt shop, as well as be able to add or adjust data related to each individual station. This includes, but is not limited to, station process parameters, chemistry readings, raw material additions, alloy calculations and consumptions, ladle assignments, and temperature measurements. This course culminates in the final step of casting production and heat closure.

In the Professional Course, participants will dive deeper into the configuration of the heat treatment practices as well as the configuration of the melt shop master data. Additionally, they will learn the concepts behind raw materials, stock management, and equipment tracking for the melt shop. They will also learn how to configure the melt shop monitor and PSI's Alloy Calculation Module. A deeper dive into the factory model and PLSQL functions/procedures will be provided, which is ideal as the Professional Course will involve some light configuration that requires knowledge of PLSQL.

Degree: Certification

Module for completion

2 x Associate Courses	+	1 x Professional Course

Program Structure

Associate Course 1:   Melt Shop Operator

Associate Course 2:   Participant's choice

Professional Course: Melt Shop Configurator

Language of instruction: English

Access: PSImetals Sandbox*

*The cloud-based PSImetals Sandbox offers an ideal platform whether you're looking to expand your familiarity with PSImetals, delve deeper into its capabilities, explore new features set for upcoming releases, or are considering PSI products but haven't finalized your decision-making process yet.

Certification

Production & Quality Manager

Program Overview

Participants begin the Production & Quality Manager program by learning the core terminology, screens and concepts that are the basis of the Production Execution System (PES). In the Associate course, they learn what makes up a production order and how materials are allocated, scheduled, produced and shipped according to customer requirements. In the case of quality deviations, participants learn how to react appropriately to identify and deal with unplanned production results.

In the Professional course, participants dive deeper into the configuration settings of the PES that can influence the functionality of different standard functions and material flows. More details are given related to PLSQL functions and procedure as well as database tables which makes this course ideal for those who already have basic knowledge of PLSQL and database tables.

Degree: Certification

Module for completion

2 x Associate Courses	**+**	1 x Professional Course

Program Structure

Associate Course 1:   Production & Quality Operator

Associate Course 2:   Participant's choice

Professional Course: Production & Quality Configurator

Language of instruction: English

Access: PSImetals Sandbox

PSI

Certification

Quality Manager (PLA)

Program Overview

Quality Manager certification is intended for metals industry professionals who are engaged in analyzing customer inquiries for technical feasibility to produce, and decide the production processes from start to finish with the material requirements and their associated dimensions. Prescribing necessary quality assurance activities such as mechanical tests, inspections and parameters for sampling are also part of the activities of these professionals.

Degree: Certification

Module for completion

2 x Associate Courses	+	1 x Professional Course

Program Structure

Associate Course 1:   Quality Planner

Associate Course 2:   Participant's choice

Professional Course: Order Dressing Configurator

Language of instruction: English

Software Access: PSImetals Sandbox

Certification

Yard Manager

Program Overview

The Yard Operator Associate course starts with a brief overview of the most important production terms. Subsequently, the participants proceed to follow the journey of the material across the entire plant: from being announced and received into the stock, through storage and staging, all the way to being shipped to a customer. During the course, a special emphasis is put on managing storage spaces, as well as orchestrating material movements around the plant; be it via simple transport orders, or by the means of destination finding. Lastly, the course incorporates activities aimed at helping participants troubleshoot.

Degree: Certification

Module for completion

2 x Associate Courses	**+**	1 x Professional Course

Program Structure

Associate Course 1:   Yard Operator

Associate Course 2:   Participant's choice

Professional Course: Transport & Yard Configurator

Language of instruction: English

Access: PSImetals Sandbox

PSI

Certification

Production Planner

Program Overview

Production Planner certification is intended for metals industry professionals who are engaged in planning activities. These activities may generate a plan used to establish promise dates for customer inquiries or may create a plan to drive the scheduling of production orders.

Degree: Certification

Module for completion

2 x Associate Courses	+	1 x Professional Course

Program Structure

Associate Course 1:   Production Planning Operator

Associate Course 2:   Participant's choice

Professional Course: Production Planning Configurator

Language of instruction: English

Access: PSImetals Sandbox

Certification

Production Scheduler

Program Overview

Production Scheduler certification is intended for metals industry professionals who are engaged in scheduling of production activities. These activities may generate an overall schedule for each production order, from start to finish. They may also focus on scheduling orders for individual lines such as continuous casters, hot / cold rolling mills and coating lines.

Degree: Certification

Module for completion

| 2 x Associate Courses | **+** | 1 x Professional Course |

Program Structure

Associate Course 1:   Production Planning Operator
Associate Course 2:   Participant's choice
Professional Course: Production Planning Configurator

Language of instruction: English

Access: PSImetals Sandbox

PSI

Certification

Solution Engineer

Program Overview

The solution engineer role is designed for those that intend to focus more on the technical configuration, support the implementation of various PSImetals components rather than on business processes. The courses explore the framework of the PSImetals system including database structure and PLSQL code, different ways to configure various user interfaces as well as define and configure communication between PSImetals and third party systems. Participants of this course should have a good understanding of database structures and PLSQL programming.

This role is achieved by taking all three Associate courses related to design, configuration and communication as well as one Associate course relating to business processes of your choice (e.g. meltshop operator, production & quality operator, etc).

Degree: Certification

Module for completion

4 x Associate Courses			

Program Structure

Associate Course 1:   Business Logic Configuration
Associate Course 2:   UI/UX Design
Associate Course 3:   Communication & Interfaces
Associate Course 4:   Participant's Choice
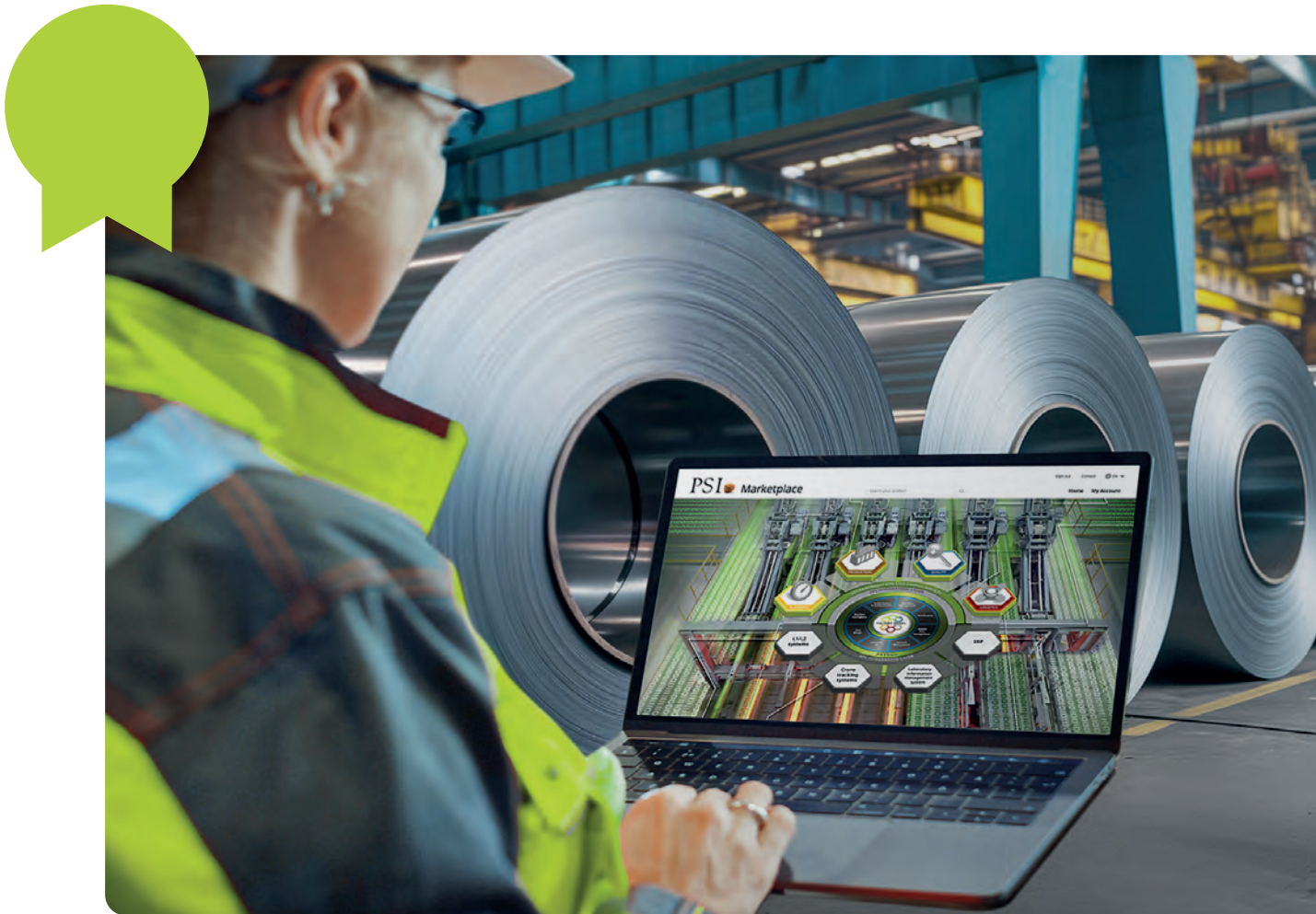
Language of instruction: English

Access: PSImetals Sandbox

Your Future
with PSImetals

PSImetals Academy

PSI

Let's start your PSImetals journey together

I hope this catalog gives you a clear insight into our Certification Program. Get deep expertise about PSImetals because a knowledge gap hurts your team and business.

Send us your questions!

Roger Becker
PSImetals Certification Program Manager

Phone: +49 211 60219 - 0
E-Mail: rbecker@psi.de

Intelligent Software

PSI Software SE - Process Industries & Metals

Dircksenstraße 42–44
10178 Berlin
Germany

info@psi.de
www.psi.de

Further Offices:

Düsseldorf, Aachen (Germany)

Global Offices:

Beijing, Shanghai (China)
Brussels (Belgium)
Graz, Traun (Austria)
Kolkata, Pune (India)
Pittsburgh (USA)
Rio de Janeiro (Brazil)
Watford (United Kingdom)

Let's get in touch!

PSI