



TRAINING PROGRAM

MORE EFFICIENCY THROUGH PRACTICAL KNOW-HOW

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ADVANCED 🔇

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MANUFACTURING SOFTWARE

	BASICS	AUT	DE	CN	USA
23	AMS ZPOINT-CI BASIC Beginners product range Manufacturing Software Machine operator/shift supervisor Foreman Production scheduling Quality production	\checkmark	\checkmark	\checkmark	\checkmark
24	AMS ANALYSIS-CI BASIC Beginners product range Manufacturing Software Machine operator/shift supervisor Foreman Production scheduling Quality production Production managemen	\checkmark	\checkmark	\checkmark	\checkmark
25	ADVANCED AMS ZPOINT-CI ADVANCED Key user for the area MDA/PDA/QDE PLC technician in the area optimization/maintenance Process engineer	\checkmark	\checkmark	\checkmark	\checkmark
26	AMS ANALYSIS-CI ADVANCED Key user for the area MDA/PDA/QDE PLC technician in the area optimization/maintenance Process engineer	\checkmark	\checkmark	1	\checkmark
27	AMS ANALYSIS-CI COMPUTE / ADVANCED ANALYTICS Key user for the area MDE/BDE/QDE Process engineer Data science	✓	_	_	_
28	AMS ZPOINT-CI/ANALYSIS-CI ADMINISTRATOR Key user for the area MDA/PDA/QDE Administrator for the production-related IT area	2 🗸	\checkmark	\checkmark	\checkmark

				SPECIAL	
		AUT	DE	CN	USA
29	AMS ZPOINT-CI INTEGRATOR Production scheduling focus control technology Key user in the area analysis / optimization / quality PLC technician in the area optimization/maintenance Integrators Machine suppliers	 Image: A start of the start of	\checkmark	~	\checkmark
30	AMS ZPOINT-CI/ANALYSIS-CI WORKSHOP Production scheduling Key user for the area MDA/PDA/QDE PLC technicians in this area Quality production/customer team Integrators Machine suppliers		✓	~	✓
31	OPTIMIZATION PROJECT Production scheduling Key user for the area MDA/PDA/QDE PLC technicians in this area Optimization/maintenance Quality production/customer team Integrators Machine suppliers Production management / production area management	√ ent	~	1	\checkmark



BASIC



NO. S00415.01 BASIC



TRAINING GOALS

Once training has been completed, the participants will be able to operate machines independently and correct disruptions. The training is aimed at people who work with production machines on a daily basis.

> TARGET GROUP Operators (feeders & troubleshooters)

TRAINING CONTENT

- » Introduction and defining prior knowledge
- » Functionality of STIWA Operating Components
- » Basic knowledge of STIWA pneumatic systems
- » Basic knowledge of feeding technology
- » Basic AMS ZPoint-Cl features
- » Operating concept for STIWA machines
- » Fault analysis and troubleshooting

- » Duration: 3 days
- » Number of participants: 5 people max.
- » Location: STIWA Training Center
- » Requirements: technical knowledge
- » When: upon request

NO. S00043.01 BASIC



AUTOMATION SYSTEMS BASIC

TRAINING GOALS

Once the training has been completed, the participants will be able to operate machines independently and correct disruptions. Furthermore, they will have extensive knowledge about the mechanical and electrical structure of the machine and the practical know-how to operate the machine efficiently. The training will be oriented on the people who work daily with production machines or are responsible for maintenance and repairs.

INSTRUCTIONS

- » Duration: 3 days
- » Number of participants: 5 people max.
- » Location: STIWA Training Center
- » Requirements: basic technical knowledge
- » When: upon request

TRAINING CONTENT

Optimization team members

Manufacturing planners

TARGET GROUP

Shift supervisors

Maintenance staff

Foremen

- » Introduction and defining prior knowledge
- » Basic systems
 - Functionality
 - Maintenance
- STIWA Operating Components (functionality)
- » Pneumatic application guidelines
- » Maintenance according to machine documentation & guidelines
- » Documentation
 - Filing structure
 - Application

- » Feeding technology
- » Basic knowledge about functionality and maintenance
 - Basic features of the CS products (AMS ZPoint-CI, AMS Analysis-CI and similar)
- » Operating concept for STIWA machines
- » Fault analysis and troubleshooting

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NO. S00416.01 BASIC



TRAINING GOALS

Once training has been completed, the participants will be able to adjust modules independently and understand their processes and technologies. The training is aimed at people who work with production machines on a daily basis as well as those responsible for calibration and quality.

TARGET GROUP

Shift supervisors Foremen

TRAINING CONTENT

- » Introduction and defining prior knowledge
- » Module Discussions
 - Functionality
 - Settings
 - Processes
 - Structure
 - and much more
- » Documentation
 - Filing structure
 - Application

- » Duration: 5 days (the duration of the training may vary depending on the size of the machines and content.)
- » Number of participants: 5 people max.
- » Location: at the customer location
- Requirements: S00043.01 Automations-Systeme S00043.01 Basic Automation Systems training or sufficient technical knowledge. Access to the machine during the training because the practical application will follow directly on the STIWA machine, (during the training period - limited production)
- » When: upon request
- » Quality Criteria
 - Components
 - Analysis
 - Avoidance of damage
 - and much more
- » Operation specific to the machine
- Proper and efficient troubleshooting
- » Set-up
 - Feeding technology
- » In-depth knowledge about functionality and maintenance

NO. S01515.01 BASIC



SUSTAINABLE OPERATION

OF A MACHINE

TRAINING GOALS

Participants can work with AMS Analysis-CI and use it in their daily operations in order to be able to operate the production continuously at a high level. Furthermore, the participants are able to track optimization loops in order to carry out active fault and cycle time analyses and independently find causes for manufacturing problems in the recorded data and initiate measures for elimination. The participant is able to create specific dashboards for his use cases.



TARGET GROUP

Shift supervisors (machine operators) Production planners Maintenance (mechanic, electric, PLC, production IT) Quality assurance Optimization team members (process engineers) Heads of production

TRAINING CONTENT

Detailed reconciliation on detail goals in the course preparation

- » Product focus
- » Terms from the MES environment and the line control
- » Used KPI's and their calculation
- » Structure / Operation of the User Interface (AMS Analysis-CI Client)
- » Working with ready-made reports and dashboards
- » Cross machine analysis
- » Guided analysis way
- » Using the free analysis within AMS Analysis-Cl

- » Duration: 2 days
- » Number of participants: 5 people max.
- » Location: STIWA Training Centre or at the customer location upon request (during the training period - limited production)
- » Requirements: S00043.01 Base Automation Systems
- » When: upon request
- » Store your self-created reports
- » Evaluation of quality data
- » Linking between quality data and MDA / PDA data
- » Creation of dashboards for daily use
- » Practical exercises on an existing customer system or example machine
- » Working with optimization control loops
- » Development of concrete control circuits for the application at the customer
- » Support of the current KVP processes at the customer by AMS Analysis-CI
- » Performance review

NO. S01066.01 BASIC



TRAINING GOALS

After completing the training, the participants will be able to operate systems and troubleshoot them independently. Furthermore, they have basic knowledge of the mechanical and electrical structure of the machine and an insight into efficient machine operation. The training is aimed at people who work with production equipment on a daily basis or who are responsible for maintenance and repair.

TARGET GROUP

Shift supervisors Foremen Optimization team members Manufacturing planners

TRAINING CONTENT

LTM TRAINING

- » Introduction
- » Basic systems
- » Transport System LTM
- » System design
- » System Protection LTM
- » Portal handling

- » Duration: 2 days
- » Number of participants: max. 5 persons
- » Location: STIWA training center
- » Requirements: S00043.01 Automation Systems Basic
- » When: on request

- » Gripper units
 - Different types
 - Assembly & disassembly
- » Feeding structure LTM system
- » Basic components
- » Training Mechanics & Teaching Module

NO. S01669.01 BASIC



TRAINING GOALS

After completing the training, the participants will be able to independently detect and rectify faults on the ELMO controllers and the associated drives. Furthermore, they have knowledge about the mechanical and electrical design of the machine and practical know-how about position correction by means of the ZPoint-CI teach program. The training is aimed at people who work with production machinery on a daily basis or who are responsible for maintenance and servicing.

TARGET GROUP Maintenance staff

TRAINING CONTENT

- » Concept LTM
- » Drive Technology Motors & Controllers
- » Structure Hardware ET
- » ELMO Application Studio
 - Application
 - Adjustment with servo motor

» LTM Handling & Teaching

INSTRUCTIONS

» Number of participants: max. 5 persons

» Prerequisites: Basic knowledge of PLC pro-

» Location: STIWA training center

» Duration: 2 days

gramming » When: on request

- Teach program & GUI structure
- Teach parameters
- Correction & Teach
- Track visualization
- » Error analysis

NO. S01691.01 BASIC



TRAINING GOALS

After completing the training, participants will be able to operate systems and troubleshoot them independently. Furthermore, they have sound knowledge of the mechanical and electrical structure of the machine and practical know-how for efficient machine operation and troubleshooting. The training is aimed at people who work with production equipment on a daily basis or who are responsible for maintenance and repair.

TARGET GROUP Maintenance staff Service technicians

TRAINING CONTENT

» LTM system standard

Machine operators

Manufacturing planners

- Structure, division of basic modules, module control in 90 system grid
- » Basic system level
 - Feedbox, feeders, transport system
- » Handling level
 - Installation and removal of handling and gripping units
- » System protection Basic
- » A consoles, transformers, control cabinet

INSTRUCTIONS

- » Duration: 0.5 days
- » Number of participants: max. 5 persons
- » Location: STIWA training center
- » Requirements: basic understanding of electrical and mechanical engineering
- » When: on request
- » Portal handling 90 / 270
 - Structure, encoder system, cable installation
- » Gripping units
 - Structure, variants, motor types
- » Handling boxes
 - Structure, interfaces, control board

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ADVANCED



NO. S01602.01 ADVANCED



TPD-CI DISTRIBUTOR

PROCESS ADAPTION

TRAINING GOALS

In this training, the basic concepts and functionalities of the TPD-CI Distributor will be transferred to the participants. Furthermore, the participants learn to adapt existing processes, to update them for newer versions and to monitor them during running operation.

INSTRUCTIONS

- » Duration: 4 hours
- » Number of participants: 5 people max.
- » Location: STIWA Training Center or at the customer location upon request (during the training period - limited production), also possible as webinar online
- » Requirements: S00424.01 Process technology
- » When: upon request

TARGET GROUP

Control technology engineer Optimization team members (process technology)

TRAINING CONTENT

- » Introduction to the application TPD-CI Distributor
- » Concept "process object"
- » Adaption of existing processes
 - Recipe parameters / Product data attributes
 - Updating of ibraries
- » Synchronization of the FIT process parameters
- » Updating the EPO service
- » Analysis of running processes

NO. S01508.01 ADVANCED



TRAINING GOALS

Once training has been completed, the participants will be able to operate the STIWA image processing systems independently and correct disruptions. Furthermore it will be taught how simple adjustments in the image processing system and the in the test programs can be made.

TARGET GROUP

Maintenance staff Optimization team members (process engineers)

INSTRUCTIONS

- » Duration: 1 day
- » Number of participants: 5 people max.
- » Location: STIWA Training Center or at the customer location upon request (during the training period - limited production)
- » Requirements: basic technical knowledge PC knowledge
- » When: upon request

TRAINING CONTENT

- » Introduction and defining prior knowledge Design of STIWA image processing system (hardware, software & AMS ZPoint-CI)
- » Storage of data and images
- » Calibration of the image processing systems
- » Fault analysis and troubleshooting
- » Replacing hardware (camera, illumination and so on)

NO. S00424.01 **ADVANCED**



PROCESS TECHNOLOGY

TRAINING GOALS

The basic understanding of a quality-monitored assembly and testing process will be transferred. Once the training has been completed, the participants will be able to support, analyze and optimize the processes used in STIWA machines. All necessary software tools and relevant processes will be taught. Furthermore, the foundations and knowledge for practical performance of the measurement system analysis will be acquired.



Shift supervisors Foremen Maintenance staff **Optimization team members** (process engineers)

TRAINING CONTENT

- » Introduction and defining prior knowledge
- » Introduction to inline assembly and test processes
- » Basics of measurement technology
- » Standard process
 - Joining process • Screwing process
 - Ultrasound joining Welding process
- » Technology units
 - Mechanical structure
 - Functionality of the measurement and test systems
- » Processes on the HMI (AMS ZPoint-CI)
 - Recipe
- Calibration values
- Quality data
- Graphs

- » Duration: 2-3 days (the duration of the training may vary
- » depending on the size of the machines and content)
- » Number of participants: 5 people max.
- » Location: at the customer location (during the training period - limited production)
- » Requirements: technical knowledge
- » When: upon request
 - Types and sub-components Counters
 - Monitoring processes
- » Software tools
 - Offline viewers (process graph visualization)
 - Quality assurance statistics
 - QDA select / AMS Analysis-CI
- » Process documentation
- » Production and scrap analysis
 - Quality assurance statistics
- » Measurement system analysis, calibration and reference part testing (MSA)
 - Theory and practice
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NO. S00423.01 ADVANCED



TRAINING GOALS

Once training has been completed, the participants will be able to implement small programming tasks using the Beckhoff TwinCAT PLC and the GML-CI and analyze existing programs. The functionality of the Beckhoff TwinCAT System Manager and application possibilities are part of the training. The PLCCapturen program will be taught so that the participant willbe able to save the current online status of the PLC system in case of an error. The participants will also learn the handling and usage of AMS ZPoint-CI and can properly interpret notifications and errors that can be created by means of the FIT software. Furthermore instructions for the activation and optimization of servo-motors will be given.

TARGET GROUP

Maintenance staff

TRAINING CONTENT

- » Beckhoff TwinCAT PLC Control & TwinCAT System Manager
 - Structure & operation of the user interface
 - Data types (default and user-defined)
 - Program syntax (instructions, loops, programs, functions and functional blocks)
 - Evaluation and recording methods (trace and scope view)
 - Addressing
 - System configuration
- » GML-CI with a focus on control technology
 - Structure & operation of the user interface

- » Duration: 10 days
- » Number of participants: 5 people max.
- » Location: STIWA Training Center
- » Requirements: Basic Windows PC knowledge
- » When: upon request
- Know and understand simple and complex GML components
- Create custom GML components
- Code shapes
- » AMS ZPoint-CI & FIT
 - Basics and operation of AMS ZPoint-Cl
 - Basics of the configuration of AMS ZPoint-CI by means of FIT
- » Servo-axles
 - Servo-axles in TwinCAT System Manager
 - Bosch Rexroth Indraworks
 - Comparison of regulators

NO. S01873.01 ADVANCED



TWINCAT 3

CONVERSION TRAINING FOR TWINCAT2 USERS

TRAINING GOALS

In this training, participants with TwinCAT 2 experience and knowledge of the STIWA programming environment are taught how to use the TwinCAT 3 system. Various innovations both in the new TwinCAT 3 interface and in the STIWA programming environment will be explained. After completing the training, the participants are able to apply their TwinCat 2 knowledge in TwinCat 3. Additionally, innovations in the STIWA CI-tools and the PLC program standard are taught.

TARGET GROUP

Maintenance staff (TwinCat2 control technology engineers)

TRAINING CONTENT:

- » Motivation for switching to TwinCAT 3
 - Why was the switch to TC3 made?
 - What advantages does TC3 offer
- » Structure and operation of the GUI
 - New features
 - Changed working methods
- » Overview of the new features in TwinCAT 3
 - Changes in syntax
 - New commands and data types
 - Create boot project
- » New search functions, filter functions
- » Connect to target system

INSTRUCTIONS

- » Duration: 2 days
- » Number of participants: 5 people max.
- » Location: STIWA Training Center, also possible as webinar online
- » Requirements: TwinCAT 2 & STIWA programming environment
- » When: upon request
- » Differences variable linking TwinCAT PLC system manager
- » Exercise examples
- » Debugging features
- » Scope recording
- » Innovations in STIWA PLC standard
- » Innovations in GML-CI

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NO. S01516.01 ADVANCED



QUALITY DATA MANAGEMENT

ON A STIWA MACHINE

TRAINING GOALS

Participants can actively work with the STIWA Automation product range and actively use it in their daily operations in order to be able to continuously operate the production at a high level. Furthermore, the participants should be able to use the STIWA Automation software and the processes integrated in the automation systems to be able to best support their activities in the field of quality assurance.



TARGET GROUP

Quality assurance Optimization team members (process engineers)

TRAINING CONTENT

reconciliation on detail goals in the course preparation

- » Product focus
- » Terms from the MES environment and the line control
- » Used KPI's and their calculation
- » Structure / Operation of the User Interface (AMS Analysis-Cl Client)
- » Working with ready-made reports and dashboards
- » Find and work with the collected quality data, Linking between quality data and MDA / PDA data
- » Measurement system analysis

- » Duration: 2 days
- » Number of participants: 5 people max.
- » Location: STIWA Training Centre or at the customer location upon request (during the training period - limited production)
- » Requirements: S00043.01 Basic Automation Systems, S01515.01 Sustainable operation of a machine (beneficial)
- » When: upon request
- » General procedure calibrating measurement systems in STIWA machines
- » Approval for types / articles on STIWA machines, Authorization system for STIWA machines and its possibilities
- » Linking of batch data to measured values
- » Support of complaint handling by the STIWA software products
- » Practical exercises on an existing customer machine or example machine
- » Performance review

NO. S01848.01 ADVANCED



ABB ROBOT TRAINING FOR OPERATORS

TRAINING GOALS

By completing the training, the participants are provided with basic knowledge regarding robotics.

Furthermore, they will be able to perform simple operations on the ABB robot.

INSTRUCTIONS

- » Duration: 4 hours
- » Number of participants: 5 people max.
- » Location: STIWA Training Center or on request also on the customer's machine (during the training period - limited production)
- » Requirements: technical understanding
- » When: upon request

TRAINING CONTENT

TARGET GROUP

Maintenance staff

» Robot handling with the FlexPendant

Operators (inserters, troubleshooters) Shift foremen (machine operators)

- » Backup and Restore
- » Definition coordination systems
- » Explanation and definition of world zones
- » Review of the "logfile"
- » Explanation of the most important functions
 - Testing motion sequences
 - Teaching new points
 - Updating revolution counter



MANUFACTURING SOFTWARE



NO. S01392.01 MANUFACTURING SOFTWARE



TRAINING GOALS

The participants know the functions that have been implemented in their machines. They can actively use them in their daily operations in order to be able to operate production at a constantly high level.

TARGET GROUP

Beginners product range Manufacturing Software Machine operator / shift supervisor Foreman Production scheduling Quality production

TRAINING CONTENT

Reconciliation on detail goals in the course preparation depending on the implemented functionalities.

- » Product focus
- » Terms from the MES environment and the line control
- » The functions depicted in the reference machine under consideration
- » Structure / operation of the User Interface (AMS ZPoint-Cl Client)
- » Information for the operation of a machine
 - Alarm display
 - Shift data
 - Standstill detection / classification
 - Reject causes / cycle times

- » Duration: 1 day
- » Number of participants: 10 people max.
- » Location: STIWA Training Center or at the customer location upon request (during the training period limited production), also possible as webinar online
- » Requirements: no special previous knowledge necessary
- » Date: Training calender
- Online key figures / optimization during the
 - running shift
- » Order specification
 - Load order
 - Start / stop orders, ...
 - Order linkages to ERP (if available)
- » Recipe
 - Type / parameters / assembly groups
 - Authorizations
 - Special releases / log book
 - Bill of material comparison (if available)
- » Q-data / batch data collection
- » Curve visualization
- » Machine specific menus (analysis stations, ...)
- » Practical exercises & Performance review

NO. S01393.01 **MANUFACTURING SOFTWARE**



MS020 AMS ANALYSIS-CI FOR TECHNICIAN / BASIC

TRAINING GOALS

The participants can actively work with AMS Analysis-CI and actively use it in their daily operations in order to be able to operate production at a constantly high level. Furthermore, the participants should be able to find independently in recorded data causes for problems in production in order to be able to eliminate them on the basis of the reports.

TARGET GROUP

Beginners product range Manufacturing Software Machine operator / shift supervisor Foreman **Production scheduling Quality production**

TRAINING CONTENT

Reconciliation on detail goals in the course preparation from the implemented functionalities:

- » Product focus
- » Terms from the MES environment and the line control
- » Used KPI's and their calculation
- » Functions depicted in the regarded reference machine
- » Structure / operation of the User Interface (AMS Analysis-CI Client)
- » Working with ready-made reports and dashboards
- » Cross machine analysis
- » Guided analysis way

INSTRUCTIONS

- » Duration: 1 day
- » Number of participants: 10 people max.
- » Location: STIWA Training Center or at the customer location upon request (during the training period - limited production), also possible as webinar online
- » Requirements: no special previous knowledge necessary
- » Date: Training calender
 - » Using the free analysis within AMS Analysis-CI
 - » Store your self-created reports
 - » Evaluation of quality data
 - » Linking between quality data and MDA/PDA data
 - » Practical exercises
 - » Performance review

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NO. S01394.01 MANUFACTURING SOFTWARE



TRAINING GOALS

The participants can parameterize the product environment of Business Unit Manufacturing Software in order to map the required functions. After the training machines can be connected to the system independently or ongoing changes can be made to the system. Furthermore, the user knowledge is consolidated to provide the necessary first level support in the factory.

TARGET GROUP

Key user for the area MDA / PDA / QDE PLC technician in the area optimization / maintenance Process engineer

INSTRUCTIONS

- » Duration: 2 days
- » Number of participants: 8 people max.
- » Location: STIWA Training Center or at the customer location upon request, also possible as webinar online
- » Requirements: MS010 AMS ZPoint-CI Basis, MS020 AMS Analysis-CI Basis
- » Date: Training calendar

TRAINING CONTENT

Reconciliation on detail goals in the course preparation depending on the implemented functionalities.

- » The functions depicted in the reference machine under consideration
- » Derivation of the necessary functionalities from end user requirements
- » Configuration of a system with AMS FIT-CI
- » Working with libraries
- » Granting permissions
- » Machine specific menus (analysis stations, ...)
- » Andon Board solutions / AMS ZPoint-Cl web in comparison
- » Best practice for first level support
- » Practical exercises
- » Performance review

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NO. S01663.01 MANUFACTURING SOFTWARE



MS031 AMS ANALYSIS-CI ADVANCED

TRAINING GOALS

The participants are able to create and manage dashboards for other users. In addition, you will also learn how to set up and maintain reporting shipping and how to customize AMS Analysis-CI. Furthermore, the user knowledge is consolidated to provide the necessary first level support in the factory.

INSTRUCTIONS

- » Duration: 1 day
- » Number of participants: 10 people max.
- » Location: STIWA Training Center or at the customer location upon request (during the training period - limited production), also possible as webinar online
- » Requirements: MS010 AMS ZPoint-CI Basis, MS020 AMS Analysis-CI Basis
- » Date: Training calendar

TARGET GROUP

Key user for the area MDA / PDA / QDE PLC technician in the area optimization / maintenance Process engineer

TRAINING CONTENT

Reconciliation on detail goals in the course preparation depending on the implemented functionalities.

- » Creating dashboards in AMS Analysis-Cl
- » Distribution of reports in AMS Analysis-Cl
- » Best practice for First Level Support
- » Practical exercises
- » Performance review

NO. S02005.01 MANUFACTURING SOFTWARE



TRAINING GOALS

The participants are able to use the AMS Analysis-CI Compute feature and to map customer-specific use cases with it. Using Compute, additional data sources (cubes) are filled and integrated into the AMS Analysis-CI evaluations. Furthermore, the user knowledge is consolidated in order to map the necessary first level support for the AMS Analysis-CI Compute Feature in the plant.

INSTRUCTIONS

- » Duration: 1 day
- » Number of participants: max. 4 persons
- » Location: STIWA training center or also possible online as webinar
- » Prerequisites: MS031 AMS Analysis-CI Advanced
- » When: on request

TRAINING CONTENT

TARGET GROUP

Process engineer

Data science

Key user for the area MDE/BDE/QDE

- » Overview of the 4 phases of Advanced Analytics (Descriptive, Diagnostic, Predictive, Prescriptive), the application areas of AMS Analysis-CI Compute
- » introduction to function / structure of AMS Analysis-CI Compute
- » Development of computations based on Python scripts
- » Deploying the created computations
- » Applying analyses to the newly created data sources
- » Monitoring of the computations

NO. S01664.01 MANUFACTURING SOFTWARE



MS040 AMS ZPOINT-CI/ANALYSIS-CI

ADMINISTRATOR

TRAINING GOALS

Participants can install/administrate the software landscape and set up a monitoring system for monitoring. In addition, administrators can properly design and scale background systems and processes to ensure smooth operation even with a growing number of machines.

TARGET GROUP

Key user for the area MDA / PDA / QDE Administrator for the production-related IT area

INSTRUCTIONS

- » Duration: 1 day
- » Number of participants: 8 people max.
- » Location: STIWA Training Center or at the customer location upon request (during the training period - limited production)
- » Requirements: MS030 AMS ZPoint-CI Advanced, MS031 Analysis-CI Advanced
- » Date: Training calender

TRAINING CONTENT

Reconciliation on detail goals in the course preparation depending on the implemented functionalities:

- » Reference topology for plant-wide back end / system requirements
- » Distribution of functions in the reference topology
- » Resource layout of front / back-end systems
- » Safety / backup strategy
- » Monitoring
- » Administration / update strategy
- » Authorization administration
- » Availability / failure safety
- » Requirements for network topology/matching with the customer's security concept
- » Practical exercises
- » Performance review

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NO. S01396.01 MANUFACTURING SOFTWARE



TRAINING GOALS

The participants get to know the APIs for machine connection. Furthermore, the transfer of the concept documents into the configuration of the machine API is taught. "Lessons learned" from upstream integration projects are also part of the training, which underlines the practical character.

TARGET GROUP

Production scheduling focus control technology Key user in the area analysis / optimization / quality PLC technician in the area optimization / maintenance Integrators Machine suppliers

TRAINING CONTENT

INSTRUCTIONS

- » Duration: 4 days
- » Number of participants: 8 people
- » Location: STIWA Training Center or at the customer location upon request (during the training period - limited production)
- » Requirements: MS030 AMS ZPoint-CI Advanced, MS031 AMS Analysis-CI Advanced advantageous (coordination with the participants possible, whether contents from MS030 are included in the course
- » Date: Training calendar

Reconciliation on detail goals in the course preparation depending on the implemented functionalities.

- » The functions depicted in the reference machine under consideration
- » APIs for machine connection
- » Working with APIs
- » Machine specific menus (analysis stations,...)
- » Practical implementation of connections
- » Experience / stumbling blocks from implemented projects
- » Time management during start-up
- » Performance review

NO. S01678.01 MANUFACTURING SOFTWARE



MS080 AMS ZPOINT-CI/ANALYSIS-

WORKSHOP

TRAINING GOALS

The training target is agreed with the customer in advance. The workshop can be used, for example, to consolidate detailed knowledge, to present and access the product landscape, or to develop / solve a detailed requirement.

TARGET GROUP

Production scheduling Key user for the area MDA/PDA/QDE PLC technicians in this area Optimization / maintenance Quality production / customer team Integrators Machine suppliers Production management / production area management

INSTRUCTIONS

- » Duration: Definition after the workshop objective has been established
- » Number of participants: 8 people max.
- » Location: STIWA Training Center or at the customer location upon request (during the training period - limited production)
- » Requirements: MS010 AMS ZPoint-CI Basis advantageous, MS020 AMS Analysis-CI Basis advantageous
- » Date: upon request

TRAINING CONTENT

Examples for workshops

- » Presentation and integration of the complete system at an existing machine
- » Integration of AMS ZPoint-Cl in a new machine for illustration of trace requirements
- » Optimization of an existing machinery material with AMS Analysis-Cl
- » Creation of customer specifications / libraries as part of the AMS ZPoint-CI product range

- » Coaching in the connection of existing machines to the overall system
- » Development of an Andon system or production cockpit for new production sites

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TRAINING GOALS

Within the scope of the project, an optimization goal defined with the customer is to be achieved. The focus is on achieving this goal sustainably, comprehensibly and together with the customer. Through the integration of machine engineering, not only potentials can be identified in the area of optimization, but solutions can also be developed and implemented.

INSTRUCTIONS

- » Duration: Definition after the workshop objective has been established
- » Number of participants: -
- » Location: at the customer (during the training period limited production)
- » Requirements: MS010 AMS ZPoint-CI Basis advantageous, MS020 AMS Analysis-CI Basis advantageous
- » Date: upon request

TARGET GROUP

Production scheduling Key user for the area MDA/PDA/QDE PLC technicians in this area Optimization / maintenance Quality production / customer team Integrators Machine suppliers Production management / production area

TRAINING CONTENT

management

Examples for workshops

- » Increase of the OOE of a machine by XY%
- » Reduction of the reject rate of a machine by XY%
- » Process analysis of an existing machinery material and transfer of results to a new machine
- » Illustration of the increased trace requirements of the end customer to an existing machinery material



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STIWA Group is an experienced partner in product and high performance automation with more than 2,200 employees. Besides high-performance automation, core competencies include product and software development for manufacturing automation, supplier production of metal and plastic components, energy-efficient building technology and laboratory automation.

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