



Mikron Service Solutions

Business Support

To guarantee continuous use of your investment

Customer Training



Setter Multistar™-CNC



Who should come ?

This course is of interest to everyone running and setting up the Multistar™-CNC machine:

- Setters
- Operators
- Production managers
- Project managers

Multistar™-CNC machines: . CX-24
equipped with CNC units

Objectives:

- To acquire knowledge for high performance production

Contents:

- Machine concept
- Components of the machine and periphery
- Use, diagnostics and settings of the machine
- Multistar™ HMI
- Machine documentation
- Machining process: mech. and CNC units and tools
- Correction of parts: mechanical and CNC
- Basics about changeover
- Basics about the CNC control and programs
- Settings and regular controls on:
 - base machine
 - loading / unloading / handling
 - machining and process control units, mechanical and CNC
 - collets
 - periphery equipment and service fluids (pneumatics, hydraulics, lubrication)
- Modem
- Employee and environmental safety
- Know your partners at Mikron SA Agno/Mikron Tool

Important remark:

- The training will be tailored to the prerequisites of participants and configuration of the machine.

Type of Training:

- Basic Mikron Training

Languages:

- English
- German
- Italian
- French
- Dutch
- other languages upon request

Duration:

- 4 days

Location:

- at Mikron SA Agno or
- at Customer's facility

Number of participants:

- maximum 4 people from the same Company

Prerequisites:

- none

In the price included:

- Customer specific training setup
- Training documentation
- Lunch in the Mikron Restaurant
- Refreshments

Training Certificate:

- each participant will receive a Training Certificate

Contact :

Local Serviceline

Mikron SA Agno

Casella Postale 115

CH – 6903 Lugano 3

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Electromechanical maintenance Multistar™-CNC



Who should come ?

This course is of interest to everyone involved in performing maintenance and keeping up the Multistar™-CNC machine:

- Electrical maintenance personnel
- Mechanical maintenance personnel
- Maintenance managers
- Advanced setters

Multistar™-CNC machines: . CX-24
equipped with CNC units

Objectives:

- To acquire knowledge for an efficient mechanical and electrical maintenance

Contents:

- Machine concept
- Components of the machine and periphery
- Introduction to the use, diagnostics and settings of the machine
- Machine documentation
- Mechanical and electrical settings, replacements, regular controls and maintenance on:
 - base machine
 - loading / unloading / handling
 - machining and process control units, mechanical and CNC
 - collets
 - periphery equipment and service fluids (pneumatics, hydraulics, lubrication)
- Machine control: software and hardware
- Controls and settings on electrical equipment (PLC, converters, sensors, drives, axes motors)
- Setup and calibration of CNC units
- Backup and load of PLC-CNC data
- Modem
- Employee and environmental safety
- Know your partners at Mikron SA Agno/Mikron Tool

Important remark:

- The training will be tailored to the prerequisites of participants and configuration of the machine.

Type of Training:

- Basic Mikron Training

Languages:

- English
- German
- Italian
- French
- Dutch
- other languages upon request

Duration:

- 5 days

Location:

- at Mikron SA Agno or
- at Customer's facility

Number of participants:

- maximum 4 people from the same Company

Prerequisites:

- none

In the price included:

- Customer specific training setup
- Training documentation
- Lunch in the Mikron Restaurant
- Refreshments

Training Certificate:

- each participant will receive a Training Certificate

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CNC programming Multistar™-CNC



Who should come ?

This course is of interest to everyone in need of creating or editing part programs in the Multistar™-CNC machine:

- CNC Programmers
- Setters
- Production managers
- Project managers

Multistar™-CNC machines: . CX-24
equipped with CNC units

Objectives:

- To acquire knowledge to create or edit part programs for Multistar™ CNC units

Contents:

- Machine concept
- Machining process
- Machine control
- CNC control: user surface and main functions
- File structure in the control and PC
- Structure and commands of part programs
- Interfacing CNC program with HMI
- HMI data
- Data handling (backup and load)
- Employee and environmental safety
- Know your partners at Mikron SA Agno/Mikron Tool

Prerequisites:

- participation to Multistar™-CNC Setter Training

Important remark:

- The training will be tailored to the prerequisites of participants and configuration of the machine.

Type of Training:

- Advanced Mikron Training

Languages:

- English
- German
- Italian
- French
- Dutch
- other languages upon request

Duration:

- approx. 3 days

Location:

- at Mikron SA Agno or
- at Customer's facility

Number of participants:

- maximum 4 people from the same Company

In the price included:

- Customer specific training setup
- Training documentation
- Lunch in the Mikron Restaurant
- Refreshments

Training Certificate:

- each participant will receive a Training Certificate

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Introduction to Multistar™-CNC



Who should come ?

This course is of interest to everyone managing people, spare parts and products orbiting around the Multistar™-CNC machine:

- Maintenance managers
- Production managers
- Purchase managers
- Project managers

Multistar™-CNC machines: . CX-24
equipped with CNC units

Objectives:

- To acquire general knowledge about Multistar™-CNC

Contents:

- Machine concept
- Components of the machine and periphery
- Multistar™ HMI
- Introduction to the use, diagnostics and settings of the machine
- Basics about correction of parts and changeover
- Machine documentation
- Units and tools
- Machine applications
- Employee and environmental safety
- Know your partners at Mikron SA Agno/Mikron Tool

Important remark:

- The training will be tailored to the prerequisites of participants and configuration of the machine.

Type of Training:

- Basic Mikron Training

Languages:

- English
- German
- Italian
- French
- Dutch
- other languages upon request

Duration:

- 1 day

Location:

- at Mikron SA Agno or
- at Customer's facility

Number of participants:

- maximum 5 people

Prerequisites:

- none

In the price included:

- Customer specific training setup
- Training documentation
- Lunch in the Mikron Restaurant
- Refreshments

Training Certificate:

- each participant will receive a Training Certificate

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Operator Multistar™-CNC



Who should come ?

This course is of interest to production personnel running the Multistar™-CNC machine:

- Machine operators
- Production managers
- Project managers

Multistar™-CNC machines: . CX-24
equipped with CNC units

Objectives:

- To acquire knowledge for correct production operations on the machine.

Contents:

- Machine concept
- Components of the machine and periphery
- Use and diagnostics of the machine
- Multistar™ HMI
- Machine documentation
- Machining process: mech. and CNC units and tools
- Regular controls on:
 - base machine
 - loading / unloading / handling
 - machining and process control units, mechanical and CNC
 - collets
 - periphery equipment and service fluids (pneumatics, hydraulics, lubrication)
- Employee and environmental safety
- Know your partners at Mikron SA Agno/Mikron Tool

Important remark:

- The training will be tailored to the prerequisites of participants and configuration of the machine.

Type of Training:

- Basic Mikron Training

Languages:

- English
- German
- Italian
- French
- Dutch
- other languages upon request

Duration:

- 2 days

Location:

- at Mikron SA Agno or
- at Customer's facility

Number of participants:

- maximum 4 people from the same Company

Prerequisites:

- none

In the price included:

- Customer specific training setup
- Training documentation
- Lunch in the Mikron Restaurant
- Refreshments

Training Certificate:

- each participant will receive a Training Certificate

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Electrical maintenance Multistar™-CNC



Who should come ?

This course is of interest to everyone involved in performing electrical maintenance and keeping up the Multistar™-CNC machine:

- Electrical maintenance personnel
- Maintenance managers
- Advanced setters

Multistar™-CNC machines: . CX-24
equipped with CNC units

Objectives:

- To acquire knowledge for an efficient electrical maintenance

Contents:

- Machine concept
- Components of the machine and periphery
- Introduction to the use, diagnostics and settings of the machine
- Machine documentation
- Electrical settings, replacements, regular controls and maintenance on:
 - base machine
 - loading / unloading / handling
 - machining and process control units, mechanical and CNC
- Machine control: software and hardware
- Controls and settings on electrical equipment (PLC, converters, sensors, drives, axes motors)
- Electrical setup and calibration procedures of CNC units
- Backup and load of PLC-CNC data
- Modem
- Employee and environmental safety
- Know your partners at Mikron SA Agno/Mikron Tool

Important remark:

- The training will be tailored to the prerequisites of participants and configuration of the machine.

Type of Training:

- Basic Mikron Training

Languages:

- English
- German
- Italian
- French
- Dutch
- other languages upon request

Duration:

- 3 days

Location:

- at Mikron SA Agno or
- at Customer's facility

Number of participants:

- maximum 4 people from the same Company

Prerequisites:

- none

In the price included:

- Customer specific training setup
- Training documentation
- Lunch in the Mikron Restaurant
- Refreshments

Training Certificate:

- each participant will receive a Training Certificate

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Mechanical maintenance Multistar™-CNC



Who should come ?

This course is of interest to everyone involved in performing mechanical maintenance and keeping up the Multistar™-CNC machine:

- Mechanical maintenance personnel
- Maintenance managers
- Advanced setters

Multistar™-CNC machines: . CX-24
equipped with CNC units

Objectives:

- To acquire knowledge for an efficient mechanical maintenance

Contents:

- Machine concept
- Components of the machine and periphery
- Introduction to the use, diagnostics and settings of the machine
- Machine documentation
- Mechanical settings, replacements, regular controls and maintenance on:
 - base machine
 - loading / unloading / handling
 - machining and process control units, mechanical and CNC
 - collets
 - periphery equipment and service fluids (pneumatics, hydraulics, lubrication)
- Mechanical setup and calibration of CNC units
- Employee and environmental safety
- Know your partners at Mikron SA Agno/Mikron Tool

Important remark:

- The training will be tailored to the prerequisites of participants and configuration of the machine.

Type of Training:

- Basic Mikron Training

Languages:

- English
- German
- Italian
- French
- Dutch
- other languages upon request

Duration:

- 4 days

Location:

- at Mikron SA Agno or
- at Customer's facility

Number of participants:

- maximum 4 people from the same Company

Prerequisites:

- none

In the price included:

- Customer specific training setup
- Training documentation
- Lunch in the Mikron Restaurant
- Refreshments

Training Certificate:

- each participant will receive a Training Certificate

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