

starrag

Training program Ecospeed

Engineering precisely
what you value

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what you value



An investment that pays off.

In order to be able to fully exploit the potential of modern CNC machines, professional and systematic user training is essential. Be it **programming**, **operation** or **maintenance**.

The Starrag training program provides the participants with practice-oriented, machine-specific expert knowledge and turns competent users into highly qualified specialists.

Advantages that speak for themselves.

- + You avoid unnecessary operating errors and the resulting follow-up costs.
- + You get the most out of your machine technologically.
- + You avoid long downtimes thanks to fast diagnosis and OEM know-how.



Training overview

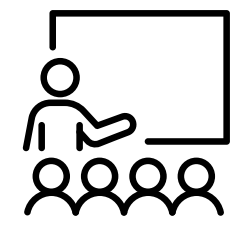
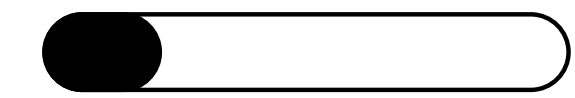
Operation

Application

Maintenance

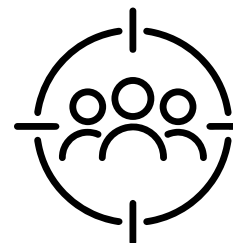
Training information

BASIC



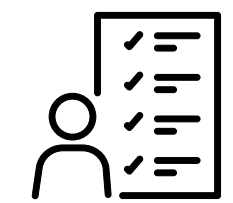
Training

Machine Operation



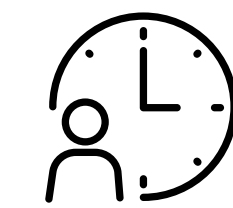
Target group

Machine operators / Machine setters



Requirements

Basic knowledge of CNC machine operation



Duration

3 Days

Contents

1. Safety
2. Introduction of the machine
3. Operating modes
4. Tool management
5. Workpiece management
6. Interrupt situations
7. Process monitoring and measurement

Organizational

The trainings are conducted in German or English. If an appropriate expert is available, the training will be conducted in local language. The scope of services includes the training for a maximum of four people and the training documents.

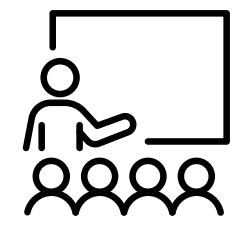
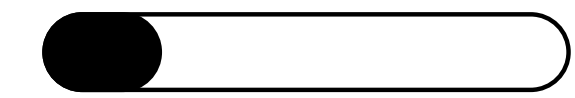
Training at the Starrag plant also includes lunch and soft drinks. In the case of training at the customer's plant, the customer shall provide the machine and a training room.



Learning Goal: Professional and safe operation of the machine according to the recommendation of the machine manufacturer

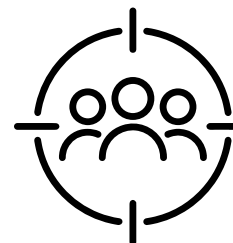
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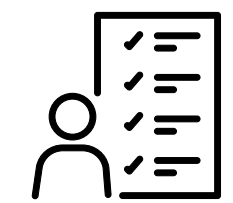
Training

CNC-programming



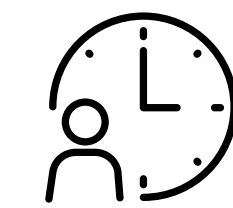
Target group

CNC programmers/Machine setters



Requirements

Basic knowledge of CNC programming



Duration

3 Days

Contents

1. Machine specification
2. Zero point systems
3. Tool call, tool change, tool management
4. Pallet call, pallet change, pallet management
5. Process monitoring
6. Machine-specific functions
7. Machine-specific programs
8. Technological commands including G-groups
9. Sub-program technology
10. Variables and calculation parameters
11. Technological cycles

Organizational

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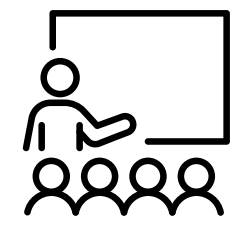
Training at the Starrag plant also includes lunch and soft drinks. In the case of training at the customer's plant, the customer shall provide the machine and a training room. This training can also be carried out online.



Learning Goal: Professional and safe creation of CNC-programmes for the machine

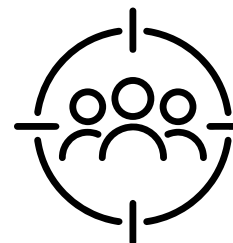
Training information

PROFI



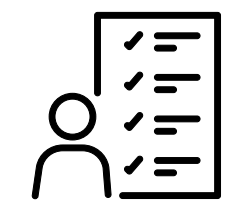
Training

Measuring probe



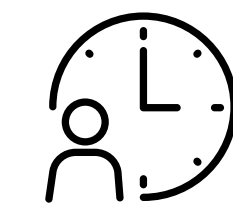
Target group

CNC programmers/Machine setters



Requirements

Training CNC programming



Duration

1 Day

Contents

1. Basics
2. Calibration
3. Measuring cycles
4. Programming examples
5. Logging

Organizational

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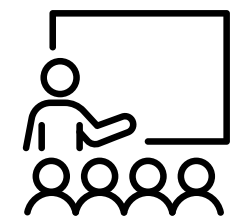
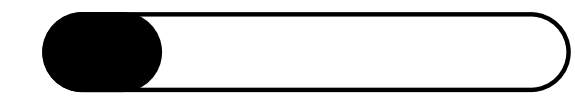
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Learning Goal: Professional and safe calibration, programming and use of the probe

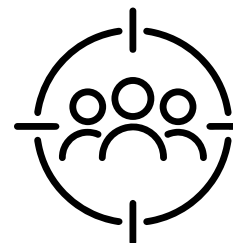
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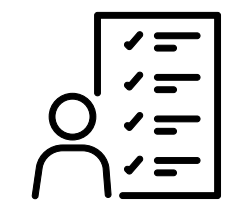
Training

Maintenance – Maintenance plan & Initial diagnosis



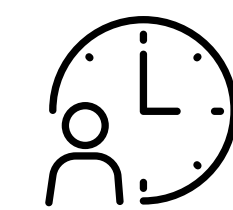
Target group

Machine operators/Maintenance technicians



Requirements

Basic knowledge of CNC machine maintenance



Duration

1 Day

Contents

1. Safety
2. Maintenance schedule
3. Lubrication diagram
4. Machine-specific initial diagnosis
5. Recommended measuring and auxiliary equipment

Organizational

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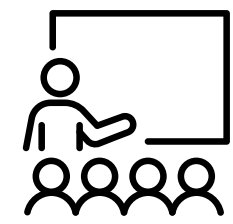
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Learning Goal: Quality maintenance
Making the initial diagnosis Erstellen
der Erstdiagnose

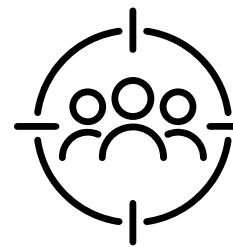
Training information

PROFI



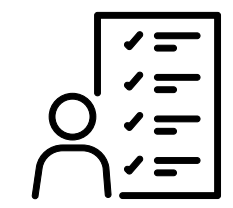
Training

Maintenance – Failure Analysis & Repair



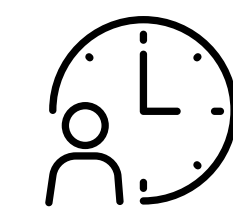
Target group

Maintenance technicians



Requirements

Maintenance training – maintenance plan and initial diagnosis



Duration

3 Days

Contents

1. Safety
2. Linear axes
3. Work spindle
4. Table unit/rotary axes
5. Changer assemblies, magazine
6. Fluid systems
7. Options
8. Maintenance and lubrication
9. Control system
10. Machine-specific settings
11. Recommended measuring and auxiliary equipment

Organizational

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Learning Goal: Knowing the mechanical and electrical structure of machine and control system Analysing faults and carrying out general repairs

Contact & Registration

We appreciate your interest and will be happy to advise you individually on your chosen training.

Here you will find the appropriate contact for your location:

Book your individual training:

Your contact person for all questions about training:



Starrag AG
Daniel Ramm
Training Center Manager