

# ACADEMY PROGRAMME

Fit for Excellence

**ACADEMY**  
Messer Cutting Systems



**ACADEMY**

# FORWORD

## **FIT FOR EXCELLENCE**

**“Our employees are our most important asset!”** In times of increasing competitive pressure it is only logical to invest in the competence and know-how of your employees. After all, not only the machines should work productively but also the people who program, operate and maintain them.

In the Messer Cutting Systems Academy in Gross-Umstadt technical knowledge is imparted effectively, and always practically, based on the machine. Experienced trainers are also happy to respond to the questions from participants. The training content is available on paper as back-up, but is also accessible everywhere and at all times on the on-line platform. This combination of methods and media allows the participants to experience a practical based training and enables them to get the maximum out of their equipment and software. So they get all the tips and tricks to cut their material even better and faster.

And if you cannot come to us, we can train on request in your premises. **So, see you soon!**

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# FIT FOR MORE **OUR COURSES FOR MACHINE OPERATORS**



### **FIT FOR MORE**

**We make your operators into professionals – so that you can generate productivity from work.**

**How? Quite simply in that we impart to your operators the knowledge of how to get the best out of your cutting system.**

### **OUR COURSES FOR MACHINE OPERATORS**

These courses have been developed for operating personnel and future service technicians who should get to know the machine operation. Thus they are appropriate for new employees but also for experienced ones, who should operate a newly acquired cutting machine with other cutting processes or operate the newest control.

The courses are structured by content as:

- >> Basic courses e.g. in the operation of the control or vertical cutting for a cutting process
- >> Advanced courses e.g. bevel cutting or the compact intensive courses

## 1.1 BASIC COURSE

### Operating the CNC control "Global Control"

You will learn the safe and efficient use of the CNC control of a cutting machine.

#### **Syllabus:**

- >> Operating a CNC cutting machine
- >> Putting a machine into operation and making the necessary settings
- >> Configuring the settings
- >> Carrying out a diagnosis
- >> Independently processing a production order

#### **NOTE:**

**Please bring your personal protection equipment for the practical part of the course**



Duration: 2 days    Participants: operators and service personnel for a CNC cutting machine



## 1.2 BASIC COURSE

### Oxyfuel flame cutting vertical

You will learn how to cut a work-piece out on a cutting machine safely and exactly with simple vertical cuts.

#### Syllabus:

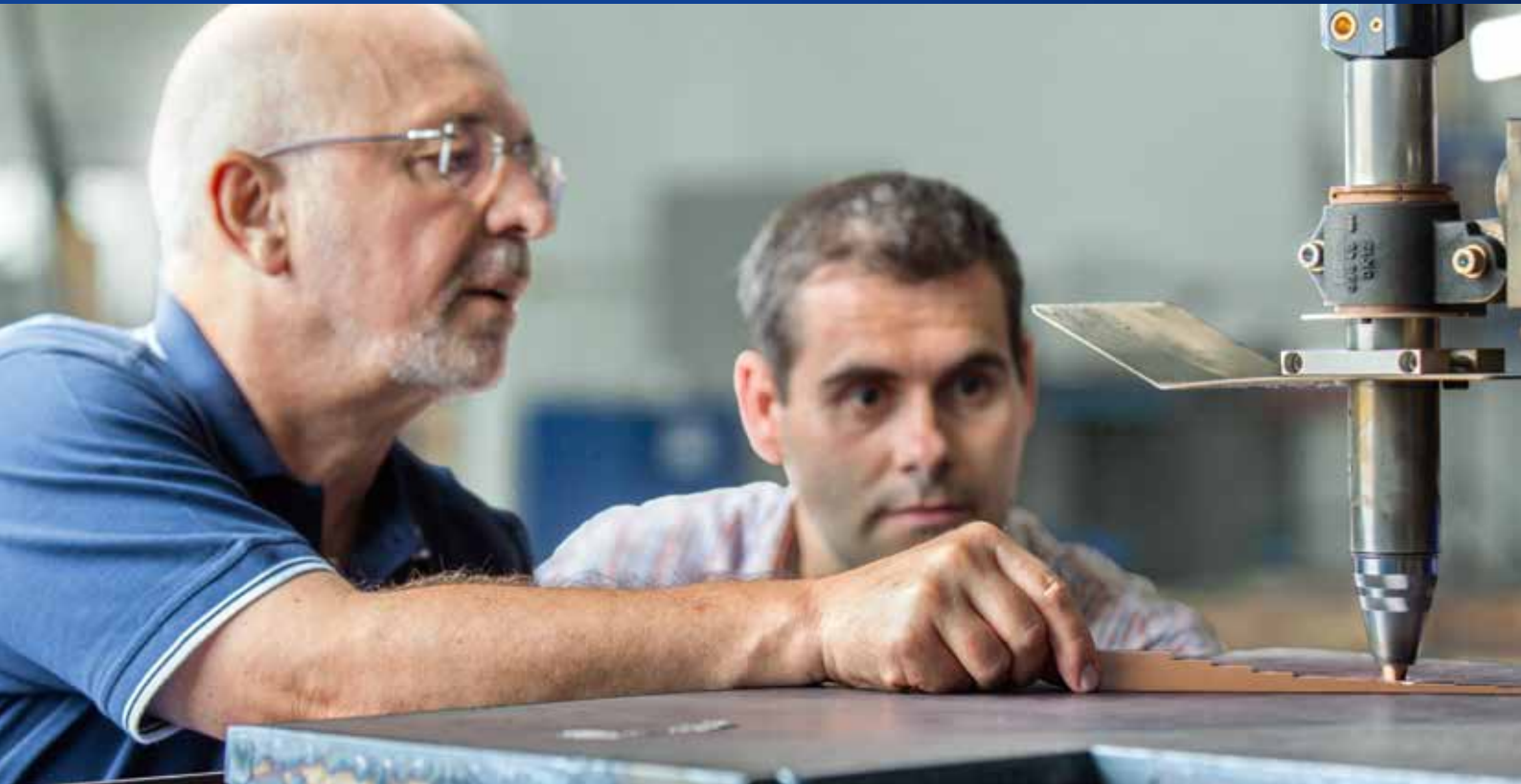
- >> How an oxyfuel flame cutting machine functions
- >> Standards and regulations, quality and dimensional accuracy, working safety and environmental guidelines
- >> Setting up a machine
- >> Cutting out a work-piece
- >> Analysis of defects, process optimisation
- >> Carrying out a production order independently
- >> Practical projects for participants

#### NOTE:

Please bring your personal protection equipment for the practical part of the course



Duration: 2½ days Participants: operators and service personnel for a CNC cutting machine



### 1.3 BASIC COURSE

#### Plasma cutting vertical

You will learn how to cut a work-piece out of plate on a plasma cutting machine safely and exactly with simple vertical cuts.

Duration: 2½ days    Participants: operators and service personnel for a CNC cutting machine



#### Syllabus:

- >> How a plasma cutting machine functions
- >> Standards and regulations, quality and dimensional accuracy, working safety and environmental guidelines
- >> Setting up a machine
- >> Cutting out a work-piece
- >> Analysis of defects, process optimisation
- >> Carrying out a production order independently
- >> Practical projects for participants

#### NOTE:

Please bring your personal protection equipment for the practical part of the course

## 1.4 INTENSIVE COURSE

### Oxyfuel and plasma cutting vertical with operation of the “Global Control”

You will learn how to cut a work-piece with oxyfuel or plasma cutting with simple vertical cuts on a CNC cutting machine.

Duration: 5 days    Participants: operators and service personnel who already have experience of a cutting process or the operation of a CNC cutting machine



#### Syllabus:

- >> The functioning principles of plasma and oxyfuel cutting
- >> Standards and regulations, quality and dimensional accuracy, working safety and environmental guidelines
- >> Operating a CNC controlled cutting machine
- >> Preparing a machine for operation and making the necessary adjustments
- >> Configuring the settings
- >> Carrying out diagnoses
- >> Setting up the machine
- >> Analysis of defects, process optimisation
- >> Carrying out a production order independently

#### NOTE:

Please bring your personal protection equipment for the practical part of the course

## 1.5 ADVANCED COURSE

### Oxyfuel bevel cutting

The prerequisites for participating in this course are having already completed the courses “Operating the Global Control” and “Oxyfuel cutting vertical”. You will learn how to make bevel cuts on the cutting machine.

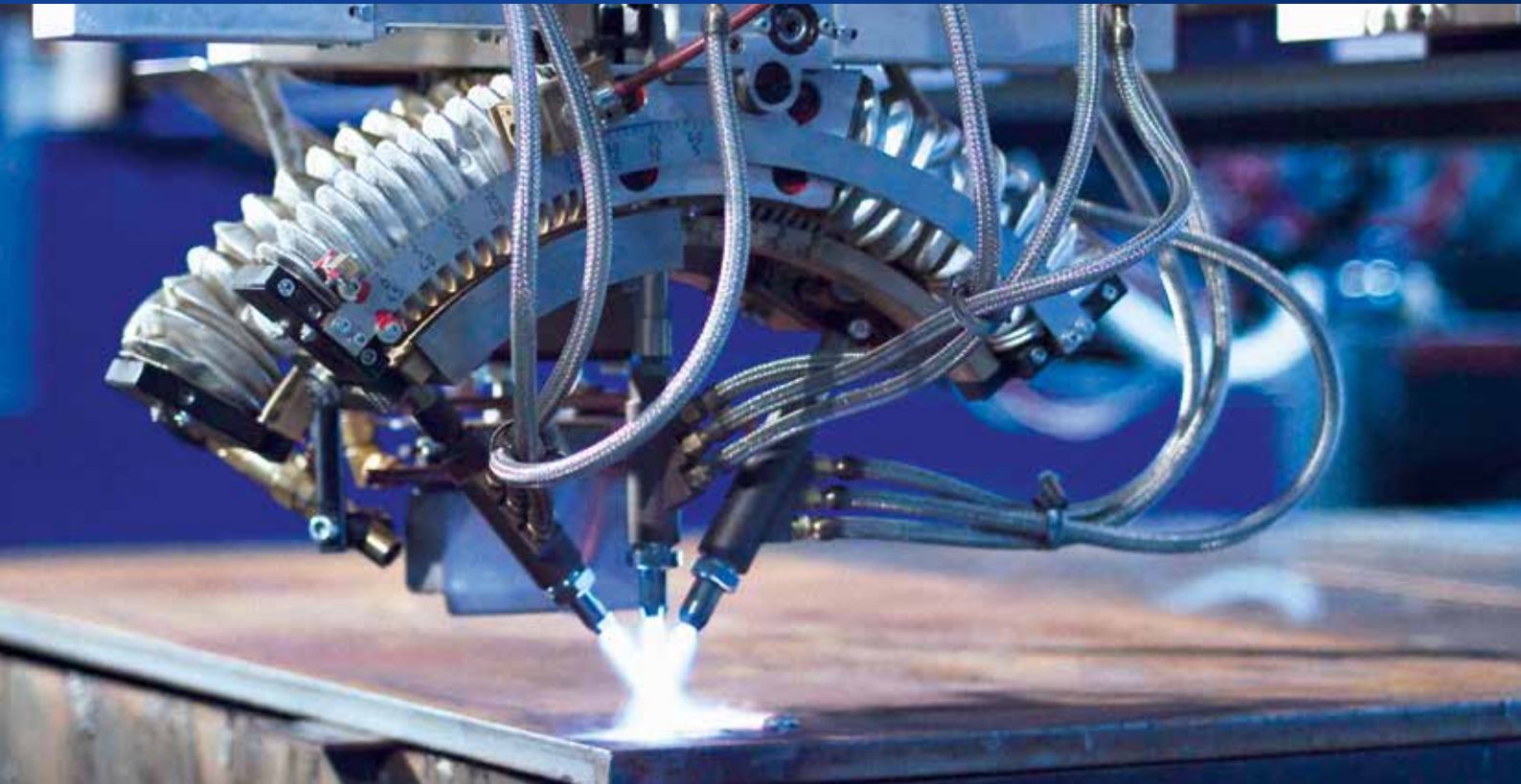
#### Syllabus:

- >> The functioning principle of oxyfuel bevel cutting
- >> Technical limitations for bevel cutting
- >> Basics of the technology
- >> Establishing the cutting parameters for customer specific material
- >> Operation of the process modules
- >> Setting up the machine
- >> Avoiding cut defects
- >> Making a fault analysis (plus maintenance instructions)
- >> Practical project “Oxyfuel bevel cutting on the machine”

#### NOTE:

The practical exercise will be made on a DAFL unit. Please bring your personal protection equipment for the practical part of the course

Duration: 2½ days    Participants: operators and service personnel for a CNC cutting machine



## 1.6 ADVANCED COURSE

### Plasma bevel cutting

The prerequisites for participating in this course are having already completed the courses “Operating the Global Control” and “Plasma cutting vertical”. You will learn how to make bevel cuts on a plasma cutting machine.

Duration: 2½ days    Participants: operators and service personnel for a CNC cutting machine



#### Syllabus:

- >> The functioning principle of plasma bevel cutting
- >> Technical limitations
- >> Details of plasma bevel cutting technology
- >> Determining the cutting data for plasma bevel cutting
- >> Setting up the machine
- >> Avoiding cut defects
- >> Making a fault analysis (plus maintenance instructions)
- >> Carrying out a practical project

#### NOTE:

The practical project will be carried out on a Skew Rotator Infinity. Please bring your personal protection equipment for the practical part of the course

## 1.7 ADVANCED COURSE

### Operating the drilling unit

The prerequisite for participating in this course is having already completed the course “Operating the Global Control”. You will learn how to set up and operate the drilling unit.

Duration: 2 days    Participants: operators



#### Syllabus:

- >> The construction and functioning principles of the drilling unit
- >> Operating the drilling unit
- >> Construction and function of the minimum lubrication system
- >> Introducing new tools

#### NOTE:

Please bring your personal protection equipment for the practical part of the course

## 1.8 BASIC COURSE

### Cutting with the fibre laser "FiberBlade"

You will learn how to cut a work-piece with a fibre laser with simple vertical cuts.

Duration: 5 days    Participants: operators



#### Syllabus:

- >> Operating the control
- >> The functioning principle of laser cutting
- >> Safety instructions for laser according to BGV B2
- >> Setting up a machine
- >> Using the cutting parameter database
- >> Cutting of Mild and Stainless Steels
- >> Fault analysis
- >> Process optimisation
- >> Carrying out a factory order independently

#### NOTE:

Training for bevel cutting is available on request.  
Please bring your personal protection equipment  
for the practical part of the course



## 1.9 BASIC COURSE

### Cutting with the CO<sub>2</sub> laser "LaserMat"

You will learn how to cut a work-piece with a "LaserMat" with simple vertical cuts.

Duration: 5 days    Participants: operators

Training for  
bevel cutting  
is available on  
request

#### Syllabus:

- >> Operating the control
- >> The functioning principle of laser cutting
- >> Safety instructions for laser according to BGV B2
- >> Setting up a machine
- >> Using the cutting parameter database
- >> Cutting of Mild and Stainless Steels
- >> Fault analysis
- >> Process optimisation
- >> Carrying out a factory order independently

#### NOTE:

Please bring your personal protection equipment for the practical part of the course

# FIT FOR PURPOSE **OUR COURSES FOR SERVICE TECHNICIANS**



### **FIT FOR PURPOSE**

**We transform annoying maintenance into far sighted preventative care, so that you can generate uptime from downtime – and increase your productivity.**

**How? Quite simply: we impart to your staff the knowledge of what should be done to keep a cutting system always top fit and ready for use.**

### **OUR COURSES FOR SERVICE TECHNICIANS**

The advanced courses are intended for maintenance staff and service technicians who are to maintain and service the machine to ensure its correct functioning.

Successful completion of a course for a machine operator or evidence from the employer of corresponding practical experience is a prerequisite for participation.

## 2.1 ADVANCED COURSE

### Global Control Service

The prerequisite for participating in this course is having already completed the course “Operating the Global Control” and a certificate as an electro technician. You will learn how to ascertain and restore the orderly functioning of a cutting machine by using a CNC.

Duration: 2 days    Participants: service technicians



#### Syllabus:

- >> Different types of control
- >> Operating the system manager
- >> Configuring the Global Control
- >> Carrying out a fault analysis for plasma
- >> Practical advice and tips on PLC sequences
- >> Carrying out a PLC diagnosis
- >> Characteristics of the MMI interface
- >> Tips and tricks

#### NOTE:

Please bring your personal protection equipment for the practical part of the course

## 2.2 BASIC COURSE

### ALFA torch service

The prerequisite for participating in this course is having already completed the course “Operating the Global Control” and a certificate as an electro technician. You will learn how to adjust the ALFA torch correctly mechanically and electronically.

Duration: 1 day    Participants: service technicians



#### Syllabus:

- >> Mechanical and electronic components of the torch
- >> Setting up the ALFA electronics
- >> Mechanical adjustment of the ALFA torch
- >> Setting up the torch lifter (OL200) and the motor drive for height adjustment
- >> Operating the oxyfuel gas flow control

#### NOTE:

If required, the PAN height sensing will also be covered. Please bring your personal protection equipment for the practical part of the course

## 2.3 ADVANCED COURSE

### Oxyfuel bevel unit DAFL Service

The prerequisite for participating in this course is having already completed the course "Operating the Global Control" and "Global Control Service". You will learn how to set up the unit mechanically and electronically.

Duration: 2½ days    Participants: service technicians



#### Syllabus:

- >> The functioning principle of the DAFL
- >> Mechanical alignment of the unit
- >> Electrical alignment of the unit
- >> Establishing the tool centre point
- >> Carrying out a fault analysis

#### NOTE:

Please bring your personal protection equipment for the practical part of the course

## 2.4 ADVANCED COURSE

### Plasma bevel unit Skew Rotator Service

The prerequisite for participating in this course is having already completed the course “Operating the Global Control” and “Global Control Service”. You will learn how to set up the unit mechanically and electronically.

Duration: 2½ days    Participants: service technicians



This course is offered for the Skew Rotator Infinity or the Skew Rotator Delta. The practical exercises will be made on the Skew Rotator Infinity.

#### Syllabus:

- >> The functioning principle of the Skew Rotator
- >> Mechanical alignment of the unit
- >> Electrical alignment of the unit
- >> Establishing the tool centre point
- >> Carrying out a fault analysis

#### NOTE:

Please bring your personal protection equipment for the practical part of the course

## 2.5 ADVANCED COURSE

### Drill unit Service

The prerequisite for participating in this course is having already completed the course “Operating the Global Control” and “Global Control Service”. You will learn how to set up the drill unit and the necessary settings in the Global Control.

#### Syllabus:

- >> The construction and function of the drill unit
- >> Setting up the initial height sensing
- >> Mechanical alignment of the unit
- >> Electrical alignment of the unit
- >> Layout and function of the minimum lubrication
- >> Defining the changeover position (Multiple tool changer)
- >> Setting up new tools
- >> Making settings in the “Global Control”
- >> Operating the drill unit
- >> Introduction of new tools
- >> Carrying out a fault analysis

#### NOTE:

Please bring your personal protection equipment for the practical part of the course





Duration: 3 days    Participants: service technicians



# FIT FOR PROCESSING OUR COURSES FOR PROGRAMMERS



### **FIT FOR PROCESSING**

**We transform workers into preparers, who optimise material and resources ... so that you can achieve your full performance potential.**

**How? Quite simply: in that we impart to your staff the (software) knowledge which allows operations to become simpler and more transparent.**

### **OUR COURSES FOR PROGRAMMERS**

These courses are intended for participants who create CNC programs for production. The course contents build upon each other. Thus participation depends upon the level of experience of the participants.

We offer:

- >> Basic courses for new entrants into the field of CNC programming with nesting software. (Ideally the participants should already be familiar with the thermal cutting processes).
- >> Advanced courses for more complex applications, e.g. bevel cutting and drilling.

### 3.1 BASIC COURSE

#### OmniWin group 2013: Introduction to the design and nesting software

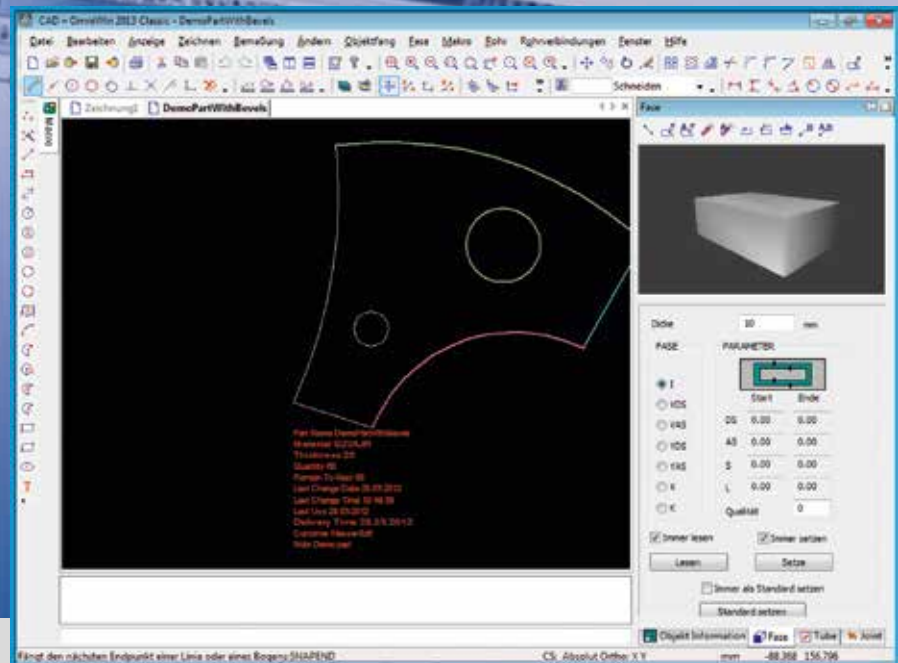
A large proportion of our refined training concept is made up of practical exercises. You will learn the path from part design right up to complete NC programs for your cutting machine.

#### Syllabus:

- >> Characteristics of a coordinate system in the machine and software
- >> CAD functions
- >> Practical exercises: construction of parts of increasing difficulty
- >> Transfer of drawings from other systems
- >> Basic knowledge of process characteristics
- >> Allowing for process characteristics in constructing or taking over third party drawings
- >> Definition of machine and process parameters taking into account the process characteristics
- >> Practical exercises: basic nesting techniques for optimum material utilisation
- >> Practical exercises: Independent execution of a production order "from drawing to finished part", including cutting it on the machine

**Improved  
Practical  
relevance:**  
Actual production  
orders will be  
processed on a  
cutting machine

Duration: 5 days Participants: starters in the field of correct design for cutting processes and creation of CNC programs using nesting software "OmniWin Group"



## 3.2 ADVANCED COURSE

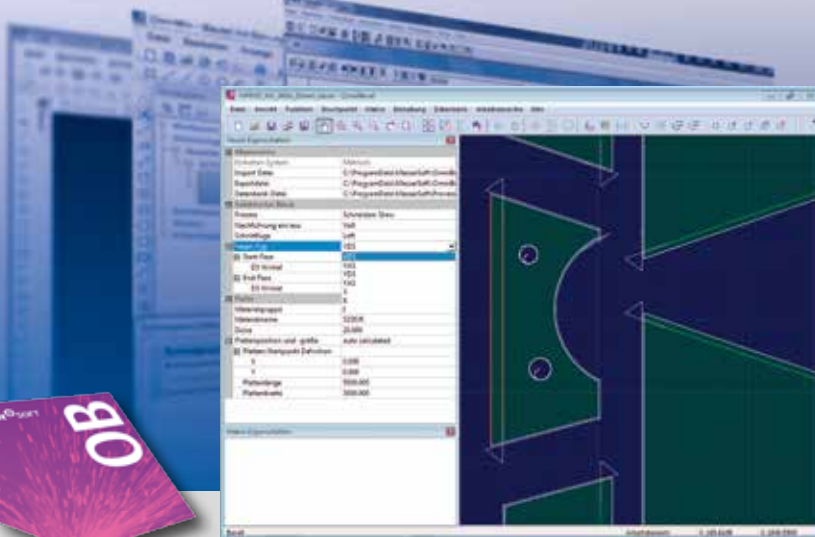
### OmniBevel 2013

You will learn how bevel cuts are prepared properly and carried out.

Duration: 5 days    Participants: personnel with experience in the fields of programming software and the cutting process who are also to make programs for the mechanised bevel head

#### Syllabus:

- >> Determining factors influencing bevel cutting
- >> Technical limits on bevel cutting
- >> Sequence of operations in the software when bevel cutting
- >> Structure of the OmniBevel 2013 database
- >> Establishing cutting parameters for bevel cutting
- >> Independent execution of a production exercise "From drawing to part with weld preparations made"



### 3.3 ADVANCED COURSE

#### OmniWin group 2013 with drill support:

It is necessary to have already completed the course “OmniWin 2013 Classic” or “OmniWin 2013” and, if applicable for bevel application, the course “OmniBevel 2013”. You will learn how to set up a drilling unit and put it into operation.

Duration: 2 days    Participants who are responsible for the programming of drilling units

#### Syllabus:

- >> Determining factors influencing drilling
- >> Technical limits for drilling on the machine
- >> Structure of the drill database
- >> Configuration of the software for drilling
- >> Sequence of operations in the software
- >> Independent execution of a production order “From drawing to part with cutting and drilling”

**IMPORTANT:**  
For this course the above prerequisites  
must be met!



# FIT FOR SPECIALS **OUR WORKSHOPS**





### **FIT FOR SPECIALS**

**We help Managers – so that they can get more out of their company ... to achieve targeted optimisation.**

**How? Quite simply: in that you decide who from which area should get special treatment in which special areas.**

### **OUR WORKSHOPS**

Our workshops are concerned intensively and in a compact form with special topics for experienced employees.

## 4.1 WORKSHOP

### Avoiding cutting defects when cutting with plasma and oxyfuel

This workshop is intended for all customers who are interested in improving the cutting quality in their operation.

Duration: 1 day    Participants: operators and programmers who are interested in improving the cut quality in their factory



#### Syllabus:

- >> The most common cutting defects
- >> Pointing out solutions
- >> Exchange of experience

#### NOTE:

Please bring your personal protection equipment for the practical part of the course

## 4.2 WORKSHOP

### Messer Hole Technology for True Hole and Contour Cut support – speed and height sensing control

You will learn how the optimisation of cutting parameters in the software can improve the contouring accuracy.

Duration: 1 day    Participants: programmers who already have in depth experience with the OmniWin programming software



#### Syllabus:

- >> Configuring the settings
- >> Carrying out diagnoses
- >> Setting up the machine
- >> Cutting the programmed component
- >> Analysis of defects and process optimisation

#### NOTE:

Please bring your personal protection equipment for the practical part of the course

### 4.3 WORKSHOP

#### How can I avoid cutting defects and optimise production with the programming software?

You will learn how to integrate the software to the optimum into your operating cycles to produce the highest quality parts without defects.

##### **Syllabus:**

- >> Defining the sequence for cutting and marking contours
- >> Selecting the positions, geometry and parameters of lead-ins
- >> Making hole piercings in advance and reducing their number
- >> Using speed and height sensing control when crossing cutting kerfs
- >> Reducing thermal distortion by stabilising parts

##### **NOTE:**

**Please bring your personal protection equipment for the practical part of the course**



Duration: 1 day

Participants: programmers who already have in depth experience with the OmniWin programming software



## 4.4 WORKSHOP

### Supporting the drill in the programming centre and on the machine

You will learn how to integrate the drilling process into an optimised operating sequence to produce high quality components efficiently.

Duration: 1 day      Participants: programmers who already have experience with the OmniWin programming software and the integrated drill support



#### Syllabus:

- >> Integrating the drill in software and machine
- >> Learning the technical limitations of drilling on a cutting machine
- >> Making hole piercings in advance with the drill
- >> Extending the depth of production by tapping – what must be watched for?

#### NOTE:

Please bring your personal protection equipment for the practical part of the course

## 4.5 WORKSHOP

**Workshop qualified person  
for working media to BGR 500 –  
chapter 2.26 item 3.72**

Attention! This workshop focusses on the products which are relevant for safety. You will learn everything which you need to know for technically competent repairs of our oxyfuel equipment and cylinder regulators as well as the maintenance of these tools.

Duration: 2½ days    Participants: personnel who themselves carry out repairs/maintenance on tools for the oxyfuel process or who supervise staff who are making repairs



**Safe handling  
of safety relevant  
items including  
testing them**

### Syllabus:

- >> The functioning principle and construction of oxyfuel equipment
  - >> Standards and regulations, quality and dimensional tolerances, working safety and environmental guidelines
  - >> Analysis of faults
  - >> Repair tools and auxiliary equipment
  - >> Testing methods, testing equipment and testing instructions
  - >> Tips and tricks
  - >> Participants' repair objects
- This training ends with a test.

### NOTE:

**Please bring your personal protection equipment for the practical part of the course**

## 4.6 WORKSHOP

### Bevel cutting with plasma

You will learn how to integrate the programming centre software and the system to give optimum operating sequences, to produce components in high quality effectively. Use the chance and make the best of an intensive practical day for your practice, every day!

#### **Syllabus:**

- >> Discover the technical limitations of bevel cutting
- >> Understand the operating instructions for the equipment
- >> Evaluate the magnitude of influences and tolerances
- >> Establish cutting parameters – how is it done correctly?
- >> Carry out feasibility analysis on the basis of enquiries





Duration: 1 day

Participants: programmers and operators who already have experience on the programming centre software or on the machine



## 4.7 WORKSHOP

### “Intensive training” OmniCAD – introduction to the CAD system

#### Prerequisites:

- >> Technically oriented career training
- >> Basic knowledge of MS Windows
- >> Knowledge of the cutting process used
- >> User experience with a CAD system

#### Aims:

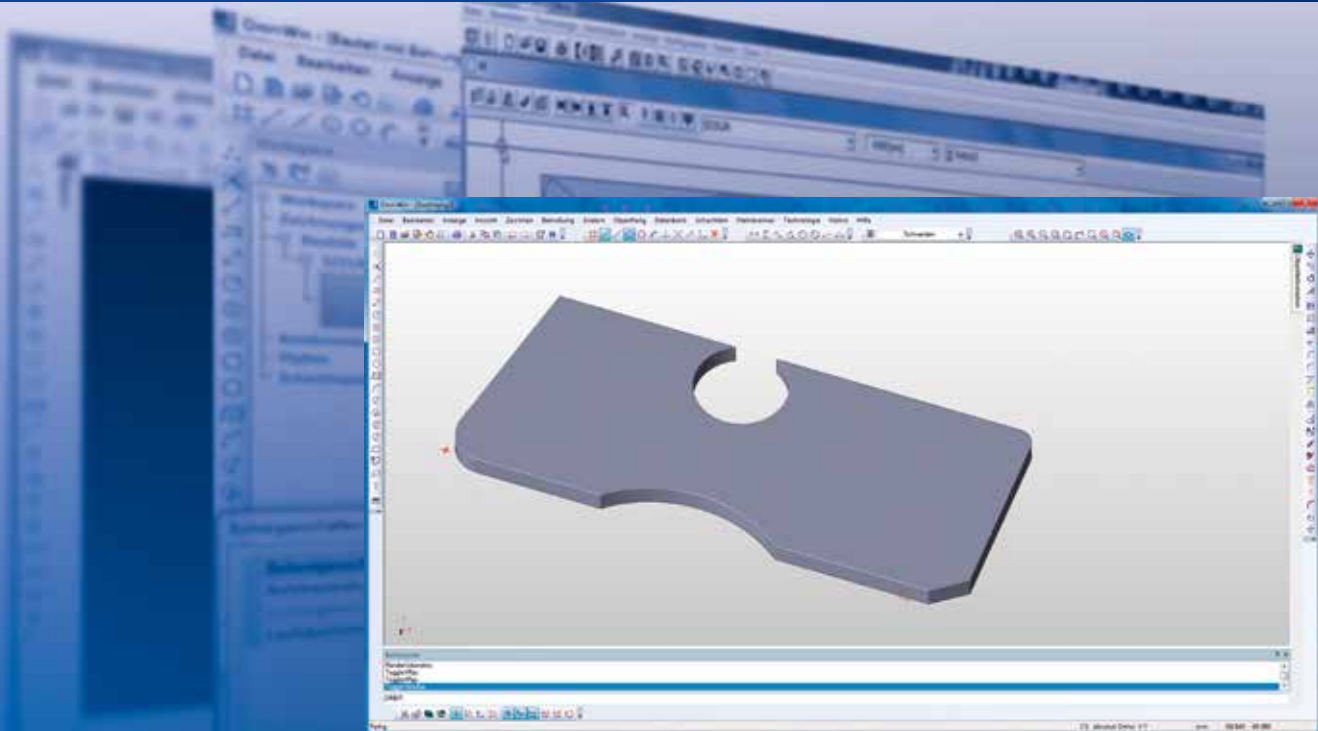
After completing the course the participants will be able to ...

- >> Apply the different coordinate systems
- >> Create a drawing in a structured and process orientated manner
- >> Design appropriately for thermal cutting

#### Syllabus:

- >> How can parts be imported?
- >> What coordinate systems exist?
- >> What is the basic way of working in the CAD module?
- >> How do I allow for the application limits of thermal cutting already at the design stage?

Duration: 1 day    Participants: This training is directed at personnel who are already working with OmniWin or OmniWin Classic, but have not previously used the integrated CAD module



# FIT FOR NEW STANDARDS CONSULTING ON THE TOPIC OF DIN EN 1090

## **FIT FOR NEW STANDARDS**

**The CE identification of all building products which must comply with the building product regulation (EU) 305/2011 is now compulsory. Orders for metallic parts may only be placed with workshops which have been examined and certified to DIN EN 1090 by an accredited organisation. The new standard demands an even stricter documentation and with it the possibility for comprehensive checking of the production quality.**

## **QUALIFICATION OF STAFF**

Quality requires that employees have the necessary experience and competence. The Messer Cutting

Systems Academy offers, as a DVS® certified training centre, numerous courses – each of these recognised as evidence for the employee certification required by DIN EN 1090.

## **CONSULTANCY**

The documented quality concerns the entire manufacturing process in the company: purchasing, goods inwards, stores, production and assembly are just as affected as quality control, packing and dispatch.

We can help you

>> With information: what is in the new building standard? To which workshops does it apply? How can I get certified?

>> With advice: We will be happy to give concrete advice after a tour of the factory. We can answer such questions as: How should I prepare for certification? What topics are particularly important? Which certification centre is to be recommended?

>> With deeds: annual safety audit of your machines, welding procedures (WPQRs) and cutting procedures (CPQRs), completion of your quality management handbook (QMH)

We will support you in cutting of working samples in that we can check that they fulfil the rectangularity, angle tolerance, surface roughness and hardness of the standard.



## FIT FOR DVS®

# OUR TRAINING COURSES AS DVS TRAINING CENTRE

### **FIT FOR DVS®**

**In times of increasing competition it is only logical to invest in the know-how and competence of your employees. Increasing the quality and productivity of the company is the focus of our activities as DVS® training centre.**

### **OUR COURSES AS DVS® TRAINING CENTRE**

We train your personnel and also carry out the examinations according to DVS® guidelines for thermal cutting and related processes. To do this we hold certification systems for personnel and companies in compliance with European and international standards. At the Messer Cutting Systems Academy in Gross-Umstadt craft information in the fields of flame straightening, flame cleaning, flame cutting and brazing is imparted methodically and perfectly – often directly on the equipment or machine.

Further information can be found in our separate DVS® brochure.

# DIRECTIONS TO THE MESSER CUTTING SYSTEMS ACADEMY IN GROSS-UMSTADT

## BY CAR

### How to find our main factory:

- >> Take the exit Hanau/Weiskirchen (B45) on the A3
- >> Drive in the direction Dieburg/Darmstadt (B45)
- >> After about 20 km turn right in the direction Erbach/Michelstadt/Darmstadt/ Dieburg-Mitte
- >> Exit Erbach/Michelstadt/Höchst i. Odw./Gross-Umstadt (B45)
- >> After about 5 km turn left into the Industrial area North in Georg-August-Zinn-Strasse

- >> You will see the Messer Cutting Systems main factory on the left hand side. Enter the visitors' car park on Otto-Hahn-Strasse

### How to find the Messer Cutting Systems Academy:

- >> Drive about 1 km further on Georg-August-Zinn-Strasse
- >> Turn left at the traffic light into Realschulestrasse after the Ford dealer on the right hand side
- >> After about 600 m you will reach a roundabout; take the first exit into Breite Gasse
- >> Turn left into Brüchelsteg (opposite of Rewe entry) and drive to the end of the street

## BY RAIL

- Distance on foot about 10-15 minutes
- >> Arrive at Gross-Umstadt station.
  - >> Go on St.-Peray-Strasse in direction East towards Carlo-Mierendorf-Strasse
  - >> Turn left into Carlo-Mierendorf-Strasse
  - >> Continue straight on over the Realschulstrasse in the Bruchweg
  - >> At the roundabout take the first exit into Breite Gasse
  - >> Turn left into Brüchelsteg and continue to the end of the street

### Messer Cutting Systems Academy

Am Brüchelsteg 8  
64823 Gross-Umstadt

### Main Factory Messer Cutting Systems

Otto-Hahn-Strasse 2-4  
64823 Gross-Umstadt





# **ACADEMY**

Messer Cutting Systems

Messer Cutting Systems Academy  
Am Brüchelsteg 8  
D-64823 Gross-Umstadt  
Tel. +49 (0) 6078 787-787  
Fax +49 (0) 6078 787-160  
[info@messer-cs-academy.de](mailto:info@messer-cs-academy.de)  
[www.messer-cs-academy.de](http://www.messer-cs-academy.de)