

Course No. // Details	Description	Duration (days)	Language	Price	Booking
Page 1	Overview Online Training Plan				
<a href="#">Page 2</a>	<a href="#">A-D111OD</a> Basic Programming ShopTurn Part 1 universal lathe	2	English	780,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 3</a>	<a href="#">A-D121OD</a> Advanced Programming ShopTurn Part 2 universal lathe	1	English	390,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 4</a>	<a href="#">A-D141OD</a> Programming Counter Spindle universal lathe ShopTurn	1	English	390,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 5</a>	<a href="#">A-D181OD</a> Programming G-Code universal lathe	3	English	1.170,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 6</a>	<a href="#">A-D213OD</a> Basic GILDEMEISTER Structure Programming Turn/ Mill centres	4	English	1.560,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 7</a>	<a href="#">A-D313OD</a> Basic Programming ShopTurn Turn/ Mill centres	4	English	1.560,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 8</a>	<a href="#">A-D381OD</a> Programming Technology Cycles Turning, Siemens 840D Operate	1	English	390,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 9</a>	<a href="#">A-D801OD</a> Basic CELOS Turning	0,5	English	195,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 10</a>	<a href="#">A-D931OD</a> Customer specific online training	on demand	English	on demand	<a href="#">by E-Mail</a>
<a href="#">Page 11</a>	<a href="#">A-F210OD</a> Basic Programming G-Code Part 1 Milling	2	English	780,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 12</a>	<a href="#">A-F211OD</a> Advanced Programming G-Code Part 2 Milling	1	English	390,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 13</a>	<a href="#">A-F310OD</a> Basic Programming ShopMill Part 1 Milling	2	English	780,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 14</a>	<a href="#">A-F311OD</a> Advanced Programming ShopMill Part 2 Milling	1	English	390,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 15</a>	<a href="#">A-F341OD</a> Programming FD Option Siemens	1	English	390,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 16</a>	<a href="#">A-F381OD</a> Programming Technology Cycles Milling, Siemens 840D Operate	1	English	390,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 17</a>	<a href="#">A-F382OD</a> Option MPC - Machine Protection Control Siemens 840D Operate	0,5	English	195,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 18</a>	<a href="#">A-F410OD</a> Basic Programming iTNC/ TNC Part 1 Milling	2	English	780,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 19</a>	<a href="#">A-F411OD</a> Advanced Programming iTNC/ TNC Part 2 Milling	1	English	390,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 20</a>	<a href="#">A-F441OD</a> Programming FD Option TNC 640	1	English	390,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 21</a>	<a href="#">A-F482OD</a> Option MPC - Machine Protection Control Heidenhain	0,5	English	195,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 22</a>	<a href="#">A-F801OD</a> Basic CELOS Milling	0,5	English	195,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 23</a>	<a href="#">A-F812OD</a> BA4 Instructions	0,5	English	195,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 24</a>	<a href="#">A-F931OD</a> Customer specific online training	on demand	English	on demand	<a href="#">by E-Mail</a>
<a href="#">Page 25</a>	<a href="#">A-D710OD</a> Basic Programming MORI AP L MAPPS IV	3	English	1.170,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 26</a>	<a href="#">A-D713OD</a> Advanced Programming MORI AP NZ MAPPS IV	0,5	English	195,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 27</a>	<a href="#">A-D715OD</a> Advanced Programming MORI AP NT MAPPS IV	1	English	345,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 28</a>	<a href="#">A-D716OD</a> Basic Programming VPS TC MAPPS V	3	English	1.170,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 29</a>	<a href="#">A-D717OD</a> Advanced Programming VPS NTX MAPPS V	1	English	345,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 30</a>	<a href="#">A-F710OD</a> Basic Programming MORI AP M MAPPS IV	2,5	English	975,00 €	<a href="#">by E-Mail</a>
<a href="#">Page 31</a>	<a href="#">A-F715OD</a> Basic Programming VPS MC MAPPS V	2,5	English	975,00 €	<a href="#">by E-Mail</a>

# DMG MORI

Course-No.	A-D111OD
Course description	Programming ShopTurn part 1 universal lathes, Online
No. of participants	1 – 5
Duration	2 days
Target Group	Specialists in turning technology
Requirements	<ul style="list-style-type: none"> <li>- Solid basic knowledge of CNC turning technology and programming</li> <li>- Internet access with at least 16 Mbit</li> </ul>
Contents	<ul style="list-style-type: none"> <li>- Introduction to the online learning platform</li> <li>- Control overview</li> <li>- Tool management</li> <li>- Program header</li> <li>- ShopTurn programming dialog</li> <li>- Contour description</li> <li>- Contour turning</li> <li>- Contour elements</li> <li>- Zero offsets</li> <li>- subroutines</li> <li>- Arithmetic functions</li> <li>- Program simulation and optimization</li> <li>- Data backup</li> </ul>

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Training language: German or English

When less than 3 participants the  
DMG MORI Academy GmbH reserves the  
right to shift the course date.

# DMG MORI

Course-No.	A-D121OD
Course description	Programming ShopTurn part 2 universal lathes, Online
No. of participants	1 – 5
Duration	1 day
Target Group	Specialists in turning technology
Requirements	- Partizipation in the course A-D111OD - Internet access with at least 16 Mbit
Contents	- Creating driven tools - Programming of C axis - Programming of Y axis - Axial and radial milling and drilling operation - Open questions

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Training language: German or English

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# DMG MORI

Course-No.	A-D141OD
Course description	Programming Counter Spindle universal lathes ShopTurn, Online
No. of participants	1 – 5
Duration	1 day
Target Group	Specialists in turning technology
Requirements	<ul style="list-style-type: none"> <li>- Participation at the course A-D121OD/A-D121-D, at Basic Programming ShopTurn or solid knowledge in programming with Siemens</li> <li>- Internet access with at least 16 Mbit</li> </ul>
Contents	<ul style="list-style-type: none"> <li>- Zero offsets</li> <li>- Zero mirroring</li> <li>- Tools of the back processing</li> <li>- Processing variants: complete / pull / to grab</li> <li>- Counter spindle as tailstock</li> <li>- Bar processing</li> <li>Simulation and program optimization</li> <li>- Programming exercises</li> <li>- Data backup</li> </ul>

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The training language is German or English

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# DMG MORI

Course-No.	A-D181OD
Course description	Programming G-Code Universal-Lathe, Online
No. of participants	1 – 5
Duration	3 days
Target Group	Specialists in turning technology
Requirements	<ul style="list-style-type: none"> <li>- Solid basic knowledge of CNC turning technology and programming</li> <li>- Internet access with at least 16 Mbit</li> </ul>
Contents	<ul style="list-style-type: none"> <li>- Brief instruction in the online learning platform</li> <li>- Control overview</li> <li>- Tool management</li> <li>- Create tools</li> <li>- Program management</li> <li>- Programming in G-Code / DIN-ISO</li> <li>- G functions</li> <li>- M functions</li> <li>- Programming with the C and Y axes</li> <li>- General turning cycles</li> <li>- General drilling and milling cycles</li> <li>- Contour turning</li> <li>- Contour milling</li> <li>- Subroutine technology</li> <li>- Simulation and program optimization</li> <li>- Programming exercises</li> <li>- Data backup</li> </ul>

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The training language is German or English.

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# DMG MORI

Course-No.	A-D213OD
Course description	Basic GILDEMEISTER structure Programming turn-/mill centres, Online
No. of participants	1 – 5
Duration	4 days
Target Group	Specialists in turning technology
Requirements	- Solid basic knowledge of CNC turning technology and programming; - Internet access with at least 16 Mbits
Contents	- Brief instruction in the online learning platform - Control overview - Structure program structure - Subroutine technology Editing programs - G and M functions - Tool management - Multitasking tools - create tools - Manufacturer and standard cycles - RG parameters - Workpiece zero points - turning cycles - Contour turning - Main program structure - Programming the C and Y axes - TOWWCS and TOWSTD - ATRANS and AROT - "Shift" subroutine - Bore and milling cycles Simulation and program optimization - Programming exercises - Data backup  ---

The training language is German or English

For less than 3 participants the  
DMG MORI Academy GmbH reserves the right  
to change the appointed day of the course.

# DMG MORI

Course-No.	A-D313OD
Course description	Basic programming ShopTurn Turn-/mill centres, Online
No. of participants	1 – 5
Duration	4 days
Target Group	Specialists in turning technology
Requirements	<ul style="list-style-type: none"> <li>- Solid basic knowledge of CNC turning technology and programming.</li> <li>- Internet access with at least 16 Mbit</li> </ul>
Contents	<ul style="list-style-type: none"> <li>- Brief instruction in the online learning platform</li> <li>- Control overview</li> <li>- Tool management</li> <li>- B axis kinematics</li> <li>- Multitasking tools</li> <li>- create tools</li> <li>- Program management</li> <li>- program header</li> <li>- General turning cycles</li> <li>- Contour turning</li> <li>- Programming the counter spindle</li> <li>- Programming with the C and Y axes</li> <li>- General milling cycles</li> <li>- Panning cycle</li> <li>- Zero offsets</li> <li>Simulation and program optimization</li> <li>- Programming exercises</li> <li>- Data backup</li> </ul>

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The training language is German or English

For less than 3 participants the  
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# DMG MORI

Course-No.	A-D381OD
Course description	Programming Technology Cycle turning, Siemens Operate, Online
No. of participants	1 – 5
Duration	1 day
Target Group	Specialists in turning technology
Requirements	- Substantiated state of knowledge in programming and operating with CNC-control; - Internet access with at least 16Mbit.
Contents	There is the option to configure the course content according to individual requirements and use the know-how of DMG MORI Academy GmbH

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The training language is German or English

For less than 3 participants the  
DMG MORI Academy GmbH reserves the right  
to change the appointed day of the course.

# DMG MORI

Course-No.	A-D801OD
Course description	Basic CELOS Turning, Online
No. of participants	1 – 5
Duration	0.5 days
Target Group	Specialists in turning technology
Requirements	<ul style="list-style-type: none"> <li>- Substantiated state of knowledge in programming and operating with CNC control;</li> <li>- Internet access with at least 16 Mbit</li> </ul>
Contents	<ul style="list-style-type: none"> <li>- Brief instruction in the online learning platform</li> <li>- Possibilities and more economical Benefit from the integration of CELOS in existing work processes</li> <li>- User interface and handling</li> <li>- Set and use the standard APP's</li> <li>- APP job manager</li> <li>-APP Job Assistant</li> <li>- APP CAD CAM View / Application Connector</li> <li>- APP Tech Calculator</li> <li>- APP Documents</li> <li>- APP organizer</li> <li>- APP Net Service</li> <li>- APP Energy Savings</li> <li>- APP settings</li> <li>- APP status monitor</li> <li>- APP control</li> <li>- APP job scheduler</li> <li>- APP tool handling</li> <li>- APP Messenger</li> <li>- APP service agent</li> </ul>

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The training language is German or English

For less than 3 participants the DMG MORI Academy GmbH reserves the right to change the appointed day of the course.

# DMG MORI

Course-No.	A-D931OD
Course description	Customized Online training, turning
No. of participants	6 – 12
Duration	1 day
Target Group	Specialists in CNC technology
Requirements	- Is defined together with the customer - Internet access with at least 16 Mbit
Contents	This course offers the possibility for the customer to tailor the course content their individual requirement.

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The training language is German or English.

# DMG MORI

Course-No.	A-F2100D
Course description	Programming G-Code part 1 milling machines, online
No. of participants	1 – 5
Duration	2 days
Target Group	Specialists in milling technology
Requirements	- Solid basic knowledge of CNC- milling technology and programming - Internet access with at least 16 Mbit
Contents	- Brief instruction in the online learning platform - Program management - Program production in g code - Contour description - Tool management - Path correction - Contour programming - Drilling and milling cycles - Arithmetic functions - Program simulation and optimization - Data backup

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Training language: German or English

When less than 3 participants the  
DMG MORI Academy GmbH reserves the  
right to shift the course date.

# DMG MORI

Course-No.	A-F211OD
Course description	Programming G-Code part 2 milling machines, online
No. of participants	1 – 5
Duration	1 day
Target Group	Specialists in milling technology
Requirements	- Participation in the course A-F210OD - Internet access with at least 16 Mbit
Contents	- Frames (zero offset, reflecting, scaling) - Subroutine technology - Routine - Open questions  --

Training language: German or English

When less than 3 participants the  
DMG MORI Academy GmbH reserves the  
right to shift the course date.

# DMG MORI

Course-No.	A-F3100D
Course description	Programming ShopMill part 1 milling machines, online
No. of participants	1 – 5
Duration	2 days
Target Group	Specialists in milling technology
Requirements	<ul style="list-style-type: none"> <li>- Solid basic knowledge of CNC-milling technology and programming</li> <li>- Internet access with at least 16 Mbit</li> </ul>
Contents	<ul style="list-style-type: none"> <li>- Brief instruction in the online learning platform</li> <li>- Machine- and work piece coordination</li> <li>- Tool management</li> <li>- Program head</li> <li>- Programming in ShopMill dialogue</li> <li>- Contour description</li> <li>- Clear Contours</li> <li>- Drilling cycles</li> <li>- Milling cycles</li> <li>- Program simulation and optimization</li> <li>- Data backup</li> </ul>

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Training language: German or English

When less than 3 participants the  
DMG MORI Academy GmbH reserves the  
right to shift the course date.

# DMG MORI

Course-No.	A-F3110D
Course description	Programming ShopMill part 2 milling machines, online
No. of participants	1 – 5
Duration	1 day
Target Group	Specialist in milling technology
Requirements	- Participation in the course A-F3100D - Internet access with at least 16 Mbit
Contents	- Reflecting - Scaling - Subroutine technology - Routine - Programming test part  --
	Training language: German or English
	When less than 3 participants the DMG MORI Academy GmbH reserves the right to shift the course date.

# DMG MORI

Course-No.	A-F341OD
Course description	Programming FD option Siemens, online
No. of participants	1 – 5
Duration	1 day
Target Group	Specialists in milling technology
Requirements	<ul style="list-style-type: none"> <li>- Basic knowledge of CNC technology and CNC operation</li> <li>- Internet access with at least 16 Mbit</li> <li>- Participation at the Basic programming ShopMill training;</li> </ul>
Contents	<ul style="list-style-type: none"> <li>- Brief instruction in the online learning platform</li> <li>- Difference Turning/Milling</li> <li>- Tool storage, designation</li> <li>- Corrections during turning mode</li> <li>- Basis function turning</li> <li>- Balancing</li> <li>- Creating and optimising lathe CNC programs</li> </ul>

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The training language is German or English.

For less than 3 participants the DMG MORI Academy GmbH reserves the right to change the appointed date of the course.

# DMG MORI

Course-No.	A-F381OD
Course description	Programming Technology Cycles milling Siemens, online
No. of participants	1 – 5
Duration	1 day
Target Group	Specialists in milling technology
Requirements	<ul style="list-style-type: none"> <li>- Basic knowledge of CNC technology and CNC operation</li> <li>- Internet access with at least 16 Mbit</li> <li>- Participation at the Basic programming ShopMill training</li> </ul>
Contents	<p>There is the option to configure the course content according to individual requirements and use the know-how of DMG MORI Academy GmbH</p> <p>---</p>

The training language is German or English.

For less than 3 participants the DMG MORI Academy GmbH reserves the right to change the appointed day of the course.

# DMG MORI

Course-No.	A-F382OD
Course description	Option MPC machine protection control, Sinumerik 840D Operate, online
No. of participants	1 – 5
Duration	0.5 days
Target Group	Specialists in milling technology
Requirements	<ul style="list-style-type: none"> <li>- Basic knowledge of CNC technology and CNC operation</li> <li>- Internet access with at least 16 Mbit</li> <li>- Participation at the Basic programming ShopMill training</li> </ul>
Contents	<ul style="list-style-type: none"> <li>- Brief instruction in the online learning platform</li> <li>- Explanation of the operations in machine collision</li> <li>- Explanation of the upper screen graphics</li> <li>- Click Tools in the Manual Operation</li> <li>- Click Tools in Automatic Operation</li> </ul>

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The course language is German or English.

For less than 3 participants the DMG MORI Academy GmbH reserves the right to change the appointed date of the course.

# DMG MORI

Course-No.	A-F4100D
Course description	Programming iTNC/TNC part 1 milling machines, online
No. of participants	1 – 5
Duration	2 days
Target Group	Specialists in milling technology
Requirements	<ul style="list-style-type: none"> <li>- Solid basic knowledge of CNC milling technology and programming.</li> <li>- Internet access with at least 16 Mbit</li> </ul>
Contents	<ul style="list-style-type: none"> <li>- Brief instruction in the online learning platform</li> <li>- Programming in Heidenhain</li> <li>- Plain text format</li> <li>- File management</li> <li>- Contour programming</li> <li>- Cycle programming:   Drilling, milling, threads</li> <li>- Reflecting, rotation</li> <li>- Zero offset</li> </ul> <p>--</p>

Training language: German or English

When less than 3 participants the  
DMG MORI Academy GmbH reserves the  
right to shift the course date.

# DMG MORI

Course-No.	A-F411OD
Course description	Programming iTNC/TNC part 2 milling machines, online
No. of participants	1 – 5
Duration	1 day
Target Group	Specialists in milling technology
Requirements	- Participation in the course A-F410OD - Internet access with at least 16 Mbit
Contents	- Repeat program part - Subroutine technology - Contour pocket with/without spigot - Polar coordinates  --  Training language: German or English  When less than 3 participants the DMG MORI Academy GmbH reserves the right to shift the course date.

# DMG MORI

Course-No.	A-F441OD
Course description	Programming FD option TNC 640 online
No. of participants	1 – 5
Duration	1 day
Target Group	Specialists in milling technology
Requirements	<ul style="list-style-type: none"> <li>- Basic knowledge of CNC technology and CNC operation</li> <li>- Internet access with at least 16 Mbit</li> <li>- Participation at the Basic programming TNC 640 training</li> </ul>
Contents	<ul style="list-style-type: none"> <li>- Brief instruction in the online learning platform</li> <li>- Difference Turning/Milling</li> <li>- Tool storage, designation</li> <li>- Basis function turning</li> <li>- Creating and optimising lathe CNC programs</li> </ul>

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The training language is German or English.

In cases of less than 3 participants the DMG MORI Academy GmbH reserves the right to change the date of the course at short notice.

# DMG MORI

Course-No.	A-F482OD
Course description	Option MPC machine protection control, Heidenhain, online
No. of participants	1 – 5
Duration	0.5 days
Target Group	Specialists in milling technology
Requirements	<ul style="list-style-type: none"> <li>- Basic knowledge of CNC technology and CNC operation</li> <li>- Internet access with at least 16 Mbit</li> <li>- Participation at the Basic programming TNC 640 training</li> </ul>
Contents	<ul style="list-style-type: none"> <li>- Brief instruction in the online learning platform</li> <li>- Explain of the operations in machine collision</li> <li>- Explanation of the upper screen graphics</li> <li>- Application to tools in Manual Operation</li> <li>- Click Tools in Automatic Operation</li> </ul> <p>--</p>

The training language is German or English.

For less than 3 participants the DMG MORI Academy GmbH reserves the right to change the appointed date of the course.

# DMG MORI

Course-No.	A-F801OD
Course description	Basic CELOS milling online
No. of participants	1 – 5
Duration	0.5 days
Target Group	Specialists in milling technology
Requirements	<ul style="list-style-type: none"> <li>- Basic knowledge of CNC technology and CNC operation</li> <li>- Internet access with at least 16 Mbit;</li> </ul>
Contents	<ul style="list-style-type: none"> <li>- Brief instruction in the online learning platform</li> <li>- Possibilities and benefits of CELOS integration into existing workflows</li> <li>- Control surface and usage</li> <li>- Setting and applying standard APPs</li> <li>- APP Job Manager/ Creation, Configuration and Visualisation of each job</li> <li>- APP Job Assistant/ Menue guided setup and processing of jobs</li> <li>- APP CAD CAM View/ Connection with CAD CAM workstations, part visualisation</li> <li>- APP Tech Calculator</li> <li>- APP Documents/ Document administration</li> <li>- APP Organizer/ Notes &amp; Alarm messages</li> <li>- APP Net Service/ Requirements/ Netservice login</li> <li>- APP Machine Check</li> <li>- APP Energy Savings/ Energy monitoring and energy saving</li> <li>- APP Settings/ Screen setup, Operator configuration</li> <li>- APP Status Monitor</li> <li>- APP Control/ Operatiung the control surface, SideScreen Applications</li> <li>- Setting up a complete, exemplary project</li> </ul>

Remark: Within the training no control specific content is taught.

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The course language is German or English.

For less than 3 participants the DMG MORI Academy GmbH reserves the right to change the appointed date of the course.

# DMG MORI

Course-No.	A-F812OD
Course description	BA4 Instructions online
No. of participants	1 – 5
Duration	0.5 days
Target Group	Specialists in milling technology
Requirements	<ul style="list-style-type: none"> <li>- Basic knowledge of CNC technology and CNC operation</li> <li>- Internet access with at least 16 Mbit</li> </ul>
Contents	<ul style="list-style-type: none"> <li>- Brief instruction in the online learning platform</li> <li>- Comparison BA2,3,4</li> <li>- Functional limitations BA4</li> <li>- Applying for BA4</li> <li>- Statutory reservations</li> <li>- Safety</li> <li>- Application in practice</li> </ul>

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The training language is German or English.

For less than 3 participants the DMG MORI Academy GmbH reserves the right to change the appointed day of the course.

# DMG MORI

Course-No.	A-F931OD
Course description	Customized Online training, milling
No. of participants	1 – 5
Duration	1 day
Target Group	Specialists in CNC technology
Requirements	<ul style="list-style-type: none"><li>- Is defined together with the customer</li><li>- Internet access with at least 16 Mbit</li></ul>
Contents	<p>This course offers the possibility for the customer to tailor the course content to their individual requirement.</p> <p>--</p> <p>The training language is German or English.</p>

# DMG MORI

Course-No.	A-D7100D
Course description	Basic Programmieren MORI AP L MAPPS IV
No. of participants	2 – 5
Duration	3 days
Target Group	Programmers and Operators of CNC-Turning machines
Requirements	<ul style="list-style-type: none"><li>- Participants should have solid knowledge</li><li>- Internet access with at least 16 MBit</li></ul>
Contents	<ul style="list-style-type: none"><li>- Basic settings</li><li>- T-Code Turret</li><li>- Turning, Grooving, Threading, Drilling</li><li>- Contour milling, Pocket milling</li><li>- C-Axis drilling</li><li>- Dialog parameter</li><li>- Creating Programs using Direct Input (G-Code)</li><li>- Creating Programs using Cycle Input (Dialog)</li><li>- Configure machine in MORI AP</li><li>- Common setting</li><li>- Contour OD cutting</li><li>- Setup Parameter for MORI AP</li><li>- Drill with fixed tool</li><li>- Skip Tools in Programm</li><li>- Tool Management for Programming</li><li>- Transfer/Programming Subspindle</li><li>- Drilling with driven Tool Holder</li><li>- Milling Side Face and Pockets</li><li>- Mirroring and Rotation</li><li>- Free shape Milling and Pockets</li></ul>

# DMG MORI

Course-No.	A-D713OD
Course description	Advanced Programmieren MORI AP NZ MAPPSIV
No. of participants	2 – 5
Duration	0.5 days
Target Group	Programmers and Operators of CNC-Turning machines
Requirements	<ul style="list-style-type: none"><li>- Prequalification from A-D710OD</li><li>- Internet access with at least 16 MBit</li></ul>
Contents	<ul style="list-style-type: none"><li>- Synchronisation Code</li><li>- Balance Cutting</li><li>- T-Code Multichannel operation</li></ul>

# DMG MORI

Course-No.	A-D715OD
Course description	Advanced Programming MORI AP NT MAPPS IV
No. of participants	2 – 5
Duration	1 day
Target Group	Programmers and Operators of CNC-Turning machines
Requirements	<ul style="list-style-type: none"><li>- Prequalification from A-D710OD</li><li>- Internet access with at least 16 MBit</li></ul>
Contents	<ul style="list-style-type: none"><li>- Multitool/T-Code Milling Spindle/ATC</li><li>- B-Axis</li><li>- Synchronisation-Code</li><li>- Balance Cutting</li><li>- T-Code Multichannel operation</li></ul>

# DMG MORI

Course-No.	A-D716OD
Course description	Basic Programming VPS TC MAPPS V
No. of participants	2 – 5
Duration	3 days
Target Group	Programmers and Operators of CNC-Milling machines
Requirements	<ul style="list-style-type: none"><li>- Participants should have solid knowledge</li><li>- Internet access with at least 16 Mbit</li></ul>
Contents	<ul style="list-style-type: none"><li>- TMS Overview, All Tool, Tool Group</li><li>- Tool file and registration</li><li>- VPS Overview, Executor, Simulator, MDI</li><li>- Overview of Programming</li><li>- Creating Programs using Direct Input (G-Code)</li><li>- Creating Programs using Cycle Input (Dialog)</li><li>- Program checking in Simulation</li><li>- Configure machine in VPS</li><li>- Face turning, contour OD cutting</li><li>- TMS tool management system</li><li>- Drilling with fixed tools</li><li>- Grooving, Threading and cutt off</li><li>- Transfer Sub spindle</li><li>- Drilling with driven tools</li><li>- Milling Side face and Packets Hexagon</li><li>- Open Pockets</li></ul>

# DMG MORI

Course-No.	A-D717OD
Course description	<ul style="list-style-type: none"> <li>- Multitool/T-Code Milling spindle/ATC</li> <li>- B-Axis</li> <li>- SynchronisationCode</li> <li>- Balance Cutting</li> <li>- T-Code Multichannel operation</li> </ul>
No. of participants	2 – 5
Duration	1 day
Target Group	Programmers and Operators of CNC-Turning machines
Requirements	<ul style="list-style-type: none"> <li>- Prequalification A-D716OD</li> <li>- Internet access with at least 16 MBit</li> </ul>
Contents	<ul style="list-style-type: none"> <li>- TMS Overview. All Tool, Tool Group, 3D Tool Modell</li> <li>- Tool file and registration</li> <li>- VPS Overview. Executor, Simulator, MDI</li> <li>- Creating and Managing Files</li> <li>- Overview of Programming</li> <li>- Creating Programs using Direct Input (ISO)</li> <li>- Creating Programs using Cycle Input (Dialog)</li> <li>- Setting Models for Interference Check</li> <li>- Program checking in Simulation</li> <li>- Executing Programs</li> <li>- Executing Programs using MDI</li> <li>- Class exercises</li> <li>- Part program methodology</li> <li>- Program a complete part (class project)</li> <li>- Programming manual and examples to keep</li> <li>- Operating CELOS</li> </ul>

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The training language is German.

# DMG MORI

Course-No.	A-F7100D
Course description	Basic Programming MORI AP M MAPPS IV
No. of participants	2 – 5
Duration	2.5 days
Target Group	Programmers and Operators of CNC-Milling machines
Requirements	<ul style="list-style-type: none"><li>- Substantiated state of knowledge in programming and operating with CNC-control</li><li>- Internet access with at least 16 Mbit</li></ul>
Contents	<ul style="list-style-type: none"><li>- Setting basic parameters</li><li>- Dialog parameters</li><li>- Drilling</li><li>- 2D-milling contour, Pocket</li><li>- 2,5D-milling</li><li>- Multi faces machining</li><li>- Program structure</li></ul>

# DMG MORI

Course-No.	A-F715OD
Course description	Basic Programming VPS MC MAPPS V
No. of participants	2 – 5
Duration	2.5 days
Target Group	Programmers and Operators of CNC-Milling machines
Requirements	<ul style="list-style-type: none"><li>- Participants should have solid knowledge</li><li>- Internet access with at least 16 MBit</li></ul>
Contents	<ul style="list-style-type: none"><li>- TMS Overview: All Tools, Tool Group</li><li>- Tool file and registration</li><li>- VPS Overview: Executor, Simulator, MDI</li><li>- Creating and Managing files</li><li>- Creating Programs using Direct Input (G-Code)</li><li>- Creating Programs using Cycle Input (Dialog)</li><li>- Configure machine in VPS</li><li>- Different VPS Types</li><li>- Rectangular cutting, different shapes</li><li>- Tool Management for Programming</li><li>- Mirroring and Rotation</li><li>- Open Pockets with Islands</li><li>- Multiface G54.2 and G68.2</li><li>- 3D Probe</li><li>- Threat milling/high speed canned</li></ul>