## Technical Training for Motion Controller and Axis Control Software

### Technical training for Motion Controller and Axis Control Software

#### in **German** language, 2016

<table>
<thead>
<tr>
<th>MACS / IEC 61131 PROGRAMMING (German)</th>
<th>Location</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Date</strong> October 18 to 20, 2016</td>
<td>Moog GmbH Hanns-Klemm-Str. 28 71034 Böblingen Germany</td>
<td>B95993-030</td>
</tr>
<tr>
<td><strong>Duration</strong> 2.5 Days</td>
<td>Phone + 49 7031 622 0</td>
<td></td>
</tr>
<tr>
<td><strong>Day 1 and 2</strong> 9:00 am - 5:00 pm</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Day 3</strong> 9:00 am - 12:00 am</td>
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</tbody>
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#### MOOG MOTION CONTROLLER AND EXTENSION MODULES (German)

<table>
<thead>
<tr>
<th><strong>Date</strong> October 20 and 21, 2016</th>
<th>Moog GmbH Hanns-Klemm-Str. 28 71034 Böblingen Germany</th>
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<tbody>
<tr>
<td><strong>Duration</strong> 1,5 Tage</td>
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<tr>
<td><strong>Day 1</strong> 12:00 am - 5:00 pm</td>
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<tr>
<td><strong>Day 2</strong> 9:00 am - 4:00 pm</td>
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#### Technical training for Motion Controller and Axis Control Software

#### in **English** language, 2016

<table>
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<tr>
<th>MACS / IEC 61131 PROGRAMMING (English)</th>
<th>Location</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Date</strong> December 6 to 8, 2016</td>
<td>Moog GmbH Hanns-Klemm-Str. 28 71034 Böblingen Germany</td>
<td>B95992-030</td>
</tr>
<tr>
<td><strong>Duration</strong> 2,5 Days</td>
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#### MOOG MOTION CONTROLLER AND EXTENSION MODULES (English)

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<th>Date December 8 and 9, 2016</th>
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<th>B95994-030</th>
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<tbody>
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<tr>
<td><strong>Day 2</strong> 9:00 am - 4:00 pm</td>
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</tr>
</tbody>
</table>
Programming with the IEC 61131-based axis control software development environment MACS (Moog Axis Control Software)

Date: December 6 to 8, 2016
Duration: 2.5 Days
Location: Moog GmbH
Hanns-Klemm-Str. 28
71034 Boeblingen
Phone: +49 7031 622 0
Order number: B95992-029
Language: English

Over 2.5 days, the Moog training “Programming with the IEC 61131-based axis control software development environment MACS (Moog Axis Control Software)” is addressing all who plan to create application programs with the MACS (Moog Axis Control Software) or who already deploy programming with the axis control software for Moog Motion Controller.

The training includes comprehensive theoretical and practical training sessions. Programming skills are not required. The training will be held in English. To deepen the acquired knowledge, Moog offers the training “Motion Controller and Extension Modules” subsequent to this training.

Theory and practical exercises:
Moog Axis Control Software (MACS):
• Overview of applications
• Create, test and debug application programs
• IEC 61131 programming languages
• Overview: Which programming language for what type of application
• Building of functions and function blocks
• Use of operators, functions and function blocks
• Use of libraries and building of own libraries
• Building of visualizations
• Trace and debug functionality
• Write and run application programs with the axis control software MACS

Prerequisites:
Experience with Microsoft Windows is required

Equipment:
A PC with MACS development environment will be provided for each two attendees.

Registration:
Please order at your local Moog sales office or directly at phone (+ 49-7031-622-0) or send an e-mail to technical.training@moog.com. Please refer to the order number.
• Training fee is 1.438 Euro.
• Maximum number of attendees is 12 and minimum number is 5. The training session will be cancelled if less attendees register.
• Cancellation: 10% of the training fee will be charged for cancellations made four weeks or more prior to the start of training; 50% charged if less than 4 weeks prior.

Accommodation:
For hotel reservations, please contact travel.germany@moog.com.
Motion Controller and Extension Modules

Date: December 8 and 9, 2016
Duration: 1.5 Days
Location: Moog GmbH
Hanns-Klemm-Str. 28
71034 Boeblingen
Phone: +49 7031 622 0
Order number: B95994-029
Language: English

Over 1.5 days, the Moog training “Motion Controller and Extension Modules” is addressing all who have experience with the IEC-61131-based development environment MACS (Moog Axis Control Software) or CODESYS and who want to learn more about the Moog Motion Controller and extension modules. The training in English language includes theoretical and practical training sessions and is subsequent to the training “Programming with the IEC 61131-based axis control software development environment MACS (Moog Axis Control Software).”

Theory and practical exercises:
Moog Motion Controller:
- Inputs and outputs, interfaces, configuration and timing
- Analog and digital extension modules
- License key
- Hardware configuration
- Task configuration
- Upload and download of application programs
- Libraries: Controls, Hardware, PLCopen, etc.
- Building and testing of application programs on the hardware training system

Prerequisites:
Experience with Microsoft Windows and previous participation in the training “Programming with the IEC 61131-based axis control software development environment MACS (Moog Axis Control Software).”

Equipment:
A hardware training system and a PC with MACS development environment will be provided for each two attendees.

Registration:
Please order at your local Moog sales office or directly at phone (+49-7031-622-0) or send an e-mail to technical.training@moog.com. Please refer to the order number.
- Training fee is 848 Euro.
- Maximum number of attendees is 12 and minimum number is 5. The training session will be cancelled if less attendees register.
- Cancellation: 10% of the training fee will be charged for cancellations made four weeks or more prior to the start of training; 50% charged if less than 4 weeks prior.

Accommodation:
For hotel reservations, please contact travel.germany@moog.com.