Who besides you has the best expertise in your area of business?

The answer is obvious and quite simple: you are the expert in your field. Similarly, no one other than NUM could claim to have the deepest expertise of our extended range of drives and CNCs. After all, this has been our business for fifty years. This is why we are your number one partner for the training of your teams.

Whether you are a User, an OEM, a Maintenance specialist or a System builder, NUM has in its catalogue all kind of training sessions dedicated to your applications and this for all generation of NUM products making parts on today machines.

Of course each customer has its own requirements, each machine and each application has its own specificities, and this is why we can also offer customized training sessions focused on your particular needs.

As a provider of CNC High End Applications, we have organized our training sessions by features and level of knowledge required, in order to help you to get all the data you need and only the data you need to be the most efficient. These sessions are conducted by training specialists and applications engineers so you can be assured that you will always get the most accurate and professional answers, whatever your question or concern might be. These sessions will give a chance to develop a durable relationship between our companies to further develop cooperation for the full benefit of all.
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Training with NUM: your advantages

- Technical data are up to date
- Should you need a specific function, you will get in depth information
- Partnership development
- You will be in touch with the experts in every domain of NUM activity
- Whatever your area of expertise might be (Maintenance, Service, Programming, Setup…), you will find the courses you need
- Full range of products and software in one location

Training Centres

All NUM technical centres are equipped to provide training. These sessions will either take place in our premises or in your facility.
Training Courses

The different training modules are linked in a way to provide a logical path for mastering our application solutions in your area of expertise.

<table>
<thead>
<tr>
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<th>FX</th>
<th>TR</th>
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<td>FX</td>
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<tr>
<td>Flexium+ only</td>
<td>FP</td>
<td></td>
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<table>
<thead>
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<td>Product Knowledge</td>
<td>1</td>
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<tr>
<td>Operation and Diagnostics</td>
<td>2</td>
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<tr>
<td>Maintenance</td>
<td>3</td>
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<tr>
<td>Engineering and Integration</td>
<td>4</td>
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<table>
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<th>Modifier</th>
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<th>Expertise Level</th>
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<tr>
<td>Beginner</td>
<td>1</td>
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<tr>
<td>Advanced</td>
<td>2</td>
</tr>
<tr>
<td>Specialist</td>
<td>3</td>
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</table>

**Generic Training Sessions**

- FXTR 101 Flexium system description
- FXTR 102 Flexium and Safety
- FXTR 201 Operation and basic maintenance
- FXTR 202 Advanced part programming
- FXTR 213 Flexium 3D
- FXTR 223 Dynamic operators in C
- FXTR 233 High speed cutting – 5 axes functions
- FXTR 301 Flexium system maintenance
- FXTR 423 NUMDrive C on CANOpen
- FXTR 433 Extended NCK Access (ENA)
- FXTR 443 Flexium HMI personalization
- FXTR 453 Communication with Flexium
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
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</thead>
<tbody>
<tr>
<td>FLTR 312</td>
<td>Flexium advanced maintenance</td>
</tr>
<tr>
<td>FPTR 312</td>
<td>Flexium+ system advanced maintenance</td>
</tr>
<tr>
<td>FPTR 314</td>
<td>NUMDrive X advanced maintenance</td>
</tr>
<tr>
<td>FPTR 401</td>
<td>Flexium system initial setup</td>
</tr>
<tr>
<td>FPTR 402</td>
<td>Flexium+ system advanced setup</td>
</tr>
<tr>
<td>FPTR 463</td>
<td>Safety including NUM-SAMX</td>
</tr>
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</table>
Proposed Training Paths

- Machine operator
  - FXTR 101
  - FXTR 201
- Programmer
  - FXTR 202
- Maintenance
  - FXTR 101
  - FXTR 102
- Engineering/Integration
  - FPTR 402
  - FPTR 401
  - FXTR 223
  - FPTR 463
  - FXTR 433
  - FPTR 463
  - FXTR443
  - FLTR 312/FPTR 312
  - FPTR 314
  - FPTR 463
Your Training Contacts

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   Fax: +41 71 333 35 87
   sales.ch@num.com

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   Fax: +33 1 56 47 58 91
   centre.formation@num.com

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   Fax: +49 7023 7440 10
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   Fax: +39 02 97969351
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   Fax: +41 71 333 35 87
   sales.ch@num.com

United Kingdom:
   Steve Moore
   Phone: +44 2476 301 259
   Fax: +44 2476 305 837
   sales.uk@num.com

For other countries, please contact your local sales representative or NUM Switzerland (sales.ch@num.com).
Training Organization

Quotation
Offers can be asked at your training contacts (see section ‘Your Training Contacts’).

Date and time table
Training dates and time tables will be part of a quotation.

Journey
Your local sales representative of NUM will provide you with journey information.

Hotels
Your local sales representative of NUM can recommend you hotels near to the training places.
## Flexium system description

### FXTR 101

<table>
<thead>
<tr>
<th>Your area of interest</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>General knowledge</td>
<td>None</td>
</tr>
</tbody>
</table>

### Objectives
- ✓ Understanding the Flexium range structure (CNCs and Drives)
- ✓ Understanding the main functions
- ✓ Ability to define a configuration with the Flexium catalogue

### Supports
- Training materials
  - Individual components
  - Simulator
- Deliveries
  - Course presentation (printed and .pdf on memory stick)
  - Flexium catalogue (on memory stick)

### Training Content

#### Flexium CNC presentation
- The different models of CNCs
- Hardware structure – Software functions

#### The panels
- PC Panels
- Machine panels

#### The PLC
- Structure
- Programming languages
- IOs

#### NUMDrive C presentation
- Hardware structure
- Drives functions and performances
- Axes and spindle motors

#### NUMDrive X presentation
- Hardware structure
- Drives functions and performances
- Axes and spindle motors

#### Tools
- PLC programming
- Web tools

#### Applications
- From the single unit CNC to the multi CNC - multi panels configurations

#### Questions and answers (1/2 hour)

### Duration
- 1 day

### Date / Costs
- Please consult your local training contact
# Flexium and Safety

**FXTR 102**

<table>
<thead>
<tr>
<th>Your area of interest</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>General knowledge</td>
<td>None</td>
</tr>
</tbody>
</table>

## Objectives

| ✓ Understanding the Flexium and Flexium+ safety concepts |
| ✓ Understanding the various safety features |
| ✓ Ability to define the components and development required for a particular configuration |

## Supports

- **Training materials**
  - Individual components
  - Simulator
- **Deliveries**
  - Course presentation (printed and .pdf on memory stick)
  - Flexium catalogue (on memory stick)

## Training Content

### Safety: What is it?
- Safety PLCs
- Safe motions
- Safety level

### General on EtherCAT and FSoE

### The Safe PLC
- Structure
- Programming languages
- I/Os

### Safety and Motions
- SAM, STO and NUMDrive C
- SAMX, STOX and NUMDrive X

### Questions and answers (1/2 hour)

## Duration

- 1 day

## Date / Costs

- Please consult your local training contact
# Operation and basic maintenance

## FXTR 201

### Your area of interest

Machine operator – 1st level maintenance

### Prerequisite

Knowledge of NUM products or FXTR 101

### Objectives

- ✓ Ability to run a machine equipped with Flexium system
- ✓ Understanding and adjusting the coordinate systems and tools offsets
- ✓ Understanding operators message and status indicators to perform a first level maintenance

### Supports

- Training materials
  - Individual components
  - Simulator
- Deliveries
  - Course presentation (printed and .pdf on memory stick)
  - Programming manual (on memory stick)

### Training Content

#### Operation

- Using the HMI
- Modes of operation
- ISO concepts (interpolation – feedrate – tools offsets – main canned cycles)
- Coordinate systems – programmable axes
- Work preparation, tools offsets, origin presets
- Basic of parametric programming

#### Maintenance

- Status indicators
- Operators messages
- LED indications
- Backup of essential data
- Adding a system option

#### Tools

- Web tools
- Flexium license loader

### Duration

3 days

### Date / Costs

Please consult your local training contact
Advanced part programming

Your area of interest
Advanced part programming – custom macros – special functions for OEM

Prerequisite
Level FXTR 201

Objectives
✓ Mastering the advanced ISO functions of the system
✓ Ability to create a custom macro (tool changer – milling head exchange – probing etc.)

Supports
Training materials
- Individual components
- Simulator

Deliveries
- Course presentation (printed and .pdf on memory stick)
- Programming and advanced programming manual (on memory stick)

Training Content
Advanced ISO functions
- Polar programming
- Probing management
- Pocket cycles
- Complements on parametric programming
  - Detailed information on E parameters
  - Relation with the outside via the PLC
- Structured programming
- Dynamic operators
- Customized G codes

Exercises
Questions and answers

Duration
4 days

Date / Costs
Please consult your local training contact
## Flexium 3D

### FXTR 213

#### Your area of interest

**Machine operation - Programming**

#### Prerequisite

**Knowledge of NUM products or FXTR 201**

#### Objectives

- Using Flexium 3D to validate a part program
- Interacting with Flexium HMI to correct possible programming faults
- Optional : Customizing Flexium 3D for machine simulation

#### Supports

- Training materials
  - Simulator
- Deliveries
  - Course presentation (printed and .pdf on memory stick)

#### Training Content

**Flexium 3D presentation**
- Principle of operation
- The different screens

**Running Flexium 3D**
- Program configuration
- Defining the blank and the tools
- Off line and On line simulation

**Exercises**

Optional
- Designing a machine model

**Questions and answers** (2 hours)

### Duration

1 day + 1 day optional

### Date / Costs

Please consult your local training contact
# Dynamic operators in C

**FXTR 223**

## Your area of interest

| General knowledge |

## Prerequisite

| FXTR 202 and C language |

## Objectives

- Develop an application using dynamic operators in C

## Supports

- **Training materials**
  - Individual components
  - Simulator

- **Deliveries**
  - Course presentation (printed and .pdf on memory stick)
  - Flexium catalogue (on memory stick)

## Training Content

- Principle of dynamic operators
- Short example using classic dynamic operators
- Review list of parameters
- The compiler
- Examples
- Trace and debug

## Duration

| 1 day |

## Date / Costs

| Please consult your local training contact |
# High Speed Cutting – 5 axes functions

**FXTR 233**

<table>
<thead>
<tr>
<th>Your area of interest</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>General knowledge</td>
<td>FXTR 202 and FPTR 401</td>
</tr>
</tbody>
</table>

## Objectives

- Mastering 5 axes machining functions
- RTCP (Rotating Tool Centre Point)
- Inclined plane
- High speed cutting

## Supports

- Training materials
  - Individual components
  - Simulator
- Deliveries
  - Course presentation (printed and .pdf on memory stick)
  - Flexium catalogue (on memory stick)

## Training Content

- NC 5 axes functions
- RTCP and inclined plane parameterization
- Application
- High speed machining functions
- Speed and acceleration controls
- Optimization of parameters
- Axes adjustments
- Flexium tools instruments
- Practical case
- Questions and answers (1/2 hour)

## Duration

2 days

## Date / Costs

Please consult your local training contact
# Flexium system maintenance

## FXTR 301

<table>
<thead>
<tr>
<th>Your area of interest</th>
<th>Prerequisite</th>
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</thead>
<tbody>
<tr>
<td>Maintenance</td>
<td>Level FXTR 101</td>
</tr>
</tbody>
</table>

## Objectives

- Ability to detect and replace defective components in a short time
- Predictive maintenance

## Supports

- Training materials
  - Simulator
- Deliveries
  - Course presentation (printed and .pdf on memory stick)

## Training Content

- Flexium system maintenance
  - System structure
  - Components
  - System start up
  - Diagnostics
  - Software updates
  - Service tool
  - Safety
  - Part replacement

- Drives maintenance
  - Product knowledge
  - Drives exchange procedure

- Questions and answers (1 hour)

## Duration

3 days

## Date / Costs

Please consult your local training contact
# Flexium system advanced maintenance

## FLTR 312

### Your area of interest

| Maintenance |

### Prerequisite

| Level FXTR 301 |

### Objectives

- ✓ Ability to detect and replace defective components in a short time
- ✓ Predictive maintenance

### Supports

| Training materials
| Simulator |
| Deliveries
| Course presentation (printed and .pdf on memory stick) |

### Training Content

<table>
<thead>
<tr>
<th>Flexium system maintenance</th>
</tr>
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<tbody>
<tr>
<td>o Detailing the product structure</td>
</tr>
<tr>
<td>o Exchange zone</td>
</tr>
<tr>
<td>o Troubleshooting with Flexium HMI</td>
</tr>
<tr>
<td>o Flexium Tools</td>
</tr>
<tr>
<td>o Parameters modification</td>
</tr>
<tr>
<td>o Debugging with the PLC</td>
</tr>
<tr>
<td>o PLC program adjustments</td>
</tr>
<tr>
<td>o Backup and restore</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NUMDrive C advanced maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>o Detailed analysis</td>
</tr>
<tr>
<td>o Drives instruments</td>
</tr>
<tr>
<td>o Drives exchange procedure</td>
</tr>
<tr>
<td>o Safety application maintenance</td>
</tr>
</tbody>
</table>

| Questions and answers (1 hour) |

### Duration

| 3 days |

### Date / Costs

| Please consult your local training contact |
## Flexium+ system advanced maintenance

### Your area of interest

**Maintenance**

### Prerequisite

**Level FXTR 301**

### Objectives

- Ability to detect and replace defective components in a short time
- Predictive maintenance

### Supports

- Training materials
  - Simulator
- Deliveries
  - Course presentation (printed and .pdf on memory stick)

### Training Content

#### Flexium+ system maintenance

- Detailing the product structure
- Exchange zone
- Troubleshooting with Flexium HMI
- Flexium Tools
- Parameters modification
- Debugging with the PLC
- PLC program adjustments
- Backup and restore

#### NUMDrive X drives advanced maintenance

- Detailed analysis
- Drives instruments
- Drives exchange procedure
- Safety application maintenance

#### Questions and answers (1 hour)

### Duration

**3 days**

### Date / Costs

Please consult your local training contact
# NUMDrive X advanced maintenance

## FPTR 314

### Your area of interest

**Machine maintenance**

### Prerequisite

**Level FXTR 301**

### Objectives

- Ability to detect and replace components or adjust parameters

### Supports

- **Training materials**
  - Simulator
- **Deliveries**
  - Course presentation (printed and .pdf on memory stick)

### Training Content

#### Review
- Range description
- Troubleshooting with Flexium HMI

#### Components connections
- Structure of a NUMDrive X application

#### Adjustments
- Using Flexium Tools for diagnostic
- Main drive parameters
- Adjustment and control

#### Questions and answers

### Duration

3 days

### Date / Costs

Please consult your local training contact
## Flexium+ system initial setup

### Your area of interest

| Engineering and Setup |

### Prerequisite

| FXTR 201 |

### Objectives

- Create a first Flexium+ application for a machine
- Control basic functions – Run two axes and a spindle

### Supports

- Training materials
  - Simulator

- Deliveries
  - Course presentation (printed and .pdf on memory stick)
  - Installation manual – Commissioning manual
  - Flexium Tools (all on memory stick)

### Training Content

#### Understanding Flexium structure

- Flexium Tools presentation
  - Getting familiar with the package
  - Languages
  - Variables
  - Structure of a project

#### Practical exercise

- Creating the machine structure
- Integrating IOs (CANopen and Ethernet)
- Integrating a panel
- Handling modes, manual and automatic commands
- Operator messages
- Power on, security
- Integrating axes and spindle
- First level of parameterization
- Running a simple part program
- Introduction to the custom visualization

### Questions and answers

### Duration

| 5 days |

### Date / Costs

| Please consult your local training contact |
# Flexium+ system advanced setup

**FPTR 402**

<table>
<thead>
<tr>
<th>Your area of interest</th>
<th>Prerequisite</th>
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</thead>
<tbody>
<tr>
<td>Engineering and Setup</td>
<td>FPTR 401</td>
</tr>
</tbody>
</table>

## Objectives

- Commissioning a Flexium system on any kind of machine

## Supports

- **Training materials**
  - Simulator

- **Deliveries**
  - Course presentation (printed and .pdf on memory stick)
  - Full set of Flexium manuals – Flexium Tools – Example project (all on memory stick)

## Training Content

- Detailed analysis of exchange variables
- **Flexium Tools complements**
  - Project simulation and debug
  - Application control (Tasks – automated checks)
  - Field bus control
  - Advanced functions (Probing – tool wear – shutdown etc.)
  - Custom screens complements
  - Optional functions (multi NCK – multi panels etc.)
  - Writing custom libraries
- Questions and answers

## Duration

- 5 days

## Date / Costs

- Please consult your local training contact
## NUMDrive C on CANopen

### Your area of interest

| Engineering and Setup |

### Prerequisite

| FTR 402 required |

### Objectives

| ✓ Control of one or more NUMDrive C over CANopen |

### Supports

<table>
<thead>
<tr>
<th>Training materials</th>
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<tbody>
<tr>
<td>Simulator</td>
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<table>
<thead>
<tr>
<th>Deliveries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course presentation (printed and .pdf on memory stick)</td>
</tr>
<tr>
<td>Full set of Flexium manuals – Flexium Tools – Example project (all on memory stick)</td>
</tr>
</tbody>
</table>

### Training Content

**Recalls on CANopen**

**NUMDrive C library**
  - Available parameters and functions

**Application**
  - Parameters settings
  - Position control
  - Velocity control

**Questions and answers**

### Duration

| 2 days |

### Date / Costs

| Please consult your local training contact |
Extended NCK Access (ENA)  FXTR 433

**Your area of interest**

Engineering and Setup

**Prerequisite**

F?TR 402 required

---

**Objectives**

- Exchange of additional data between NCK and PLC

**Supports**

- Training materials
  - Simulator

- Deliveries
  - Course presentation (printed and .pdf on memory stick)
  - Flexium Tools – Example project

---

**Training Content**

- Structure of internal communication in Flexium systems
  - ENA library
    - Available parameters and functions

- Application
  - Reading parameters
  - Writing parameters
  - Files management

- Questions and answers

---

**Duration**

2 days

**Date / Costs**

Please consult your local training contact
# Flexium HMI personalization

## Your area of interest

| Engineering and Setup |

## Prerequisite

- FXTR 101
- Windows knowledge
- Programming knowledge of script languages

## Objectives

- Creating Flexium HMI custom pages in HTML/JavaScript

## Supports

- Training materials
- Simulator

## Deliveries

- Course presentation (printed and .pdf on memory stick)
- Software Development Kit access
- Example (on memory stick)

## Training Content

### Introduction in the architecture of Flexium HMI

- Explanation of the Flexium HMI components
  - FXBrowser
  - FXServer
  - FXLib
  - FXLog

- Structure of configuration files
  - FXServer.ini
  - FXUser.ini

### Explanation of the FXServer architecture

- Event handling
- task management
- ...

### Abstract of development tools

- Exercises related to practice using HTML and JavaScript
  - Object instancing of the classes of the development components
  - Using of the development components
  - Characteristics of the array structure of event classes
  - Programming examples

### Questions and answers

### Duration

- 3 days

### Date / Costs

- Please consult your local training contact
# Communication with Flexium

## FXTR 453

### Your area of interest

- Engineering and Setup

### Prerequisite

- FXTR 101
- Windows knowledge
- Knowledge of object oriented programming (OOP) and use of COM server

### Objectives

- Using of FXServer for the communication with the different components of Flexium

### Supports

- Training materials
  - Simulator
- Deliveries
  - Course presentation (printed and .pdf on memory stick)
  - Software Development Kit access
  - Programming examples in C# and C++ (on memory stick)

### Training Content

- Introduction in the architecture of FXServer
- Explanation of the Flexium components (FXServer, FXLib, FXLog) and configuration file (FXServer.ini)
- Explanation of the FXServer architecture (Event handling, task management, …)
- Exercises related to practice using C#
  - Object referencing and instancing of the classes of the development components
  - Using of the development components
  - Characteristics of the array structure of event classes
  - Programming examples
- Questions and answers

### Duration

- 2 days

### Date / Costs

- Please consult your local training contact
# Safety including NUM-SAMX

## Your area of interest

| Engineering and Setup |

## Prerequisite

| FXTR 102 or FPTR 402 |

## Objectives

- Understand concept.
- Program and setup a safety application on a Flexium system

## Supports

- Training materials
  - Simulator
- Deliveries
  - Course presentation (printed and .pdf on memory stick)
  - Software Development Kit access
  - Example (on memory stick)

## Training Content

- Hardware structure
- Safety functions
- Safety application concept
- Safe PLC programming
- Drive functions
  - NUM-STOX setup
  - NUM-SAMX setup
- Questions and answers

## Duration

| 2 days |

## Date / Costs

| Please consult your local training contact |
## Individual trainings

<table>
<thead>
<tr>
<th>Your area of interest</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Something around NUM controls</td>
<td>Depending on the training content</td>
</tr>
</tbody>
</table>

### Objectives

- Will be defined with you

### Supports

- Training materials
  - Simulator
- Deliveries
  - Course presentation (printed and .pdf on memory stick)
  - Example (on memory stick) if available

### Training Content

Will be developed with you

### Duration

To be defined

### Date / Costs

Please consult your local training contact

Individual trainings can happen at NUM locations or customer site.
Booking Form
For booking of training please send an e-mail to one of the following address with content below:

France: centre.formation@num.com
Germany: timo.zaiser@num.com
Italy: alessandra.villa@num.com
Switzerland: sales.ch@num.com
United Kingdom: sales.uk@num.com

For other countries, please contact your local sales representative or NUM Switzerland (sales.ch@num.com).

E-mail content

Company name:
Contact person:
Function:
Phone:
Address:

Your order number:

Training number:
Training date:
Training location:
Names of the participants: