

CNC Power Engineering

Always on the move



CNC and Drives

Training catalogue 2022

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 catalog 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 Centers

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



Some training facilities



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.

	FX	TR	3	0	1
Control Series					
Generic	FX				
Flexium only	FL				
Flexium ⁺ only	FP				
Training					
Type					
Product Knowledge			1		
Operation and Diagnostics			2		
Maintenance			3		
Engineering and Integration			4		
Modifier					
Expertice Level					
Beginner					1
Advanced					2
Specialist					3

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 401	Flexium system initial setup
FXTR 423	NUMDrive C on CANOpen
FXTR 433	Extended NCK Access (ENA)
FXTR 443	Flexium HMI personalization
FXTR 453	Communication with Flexium

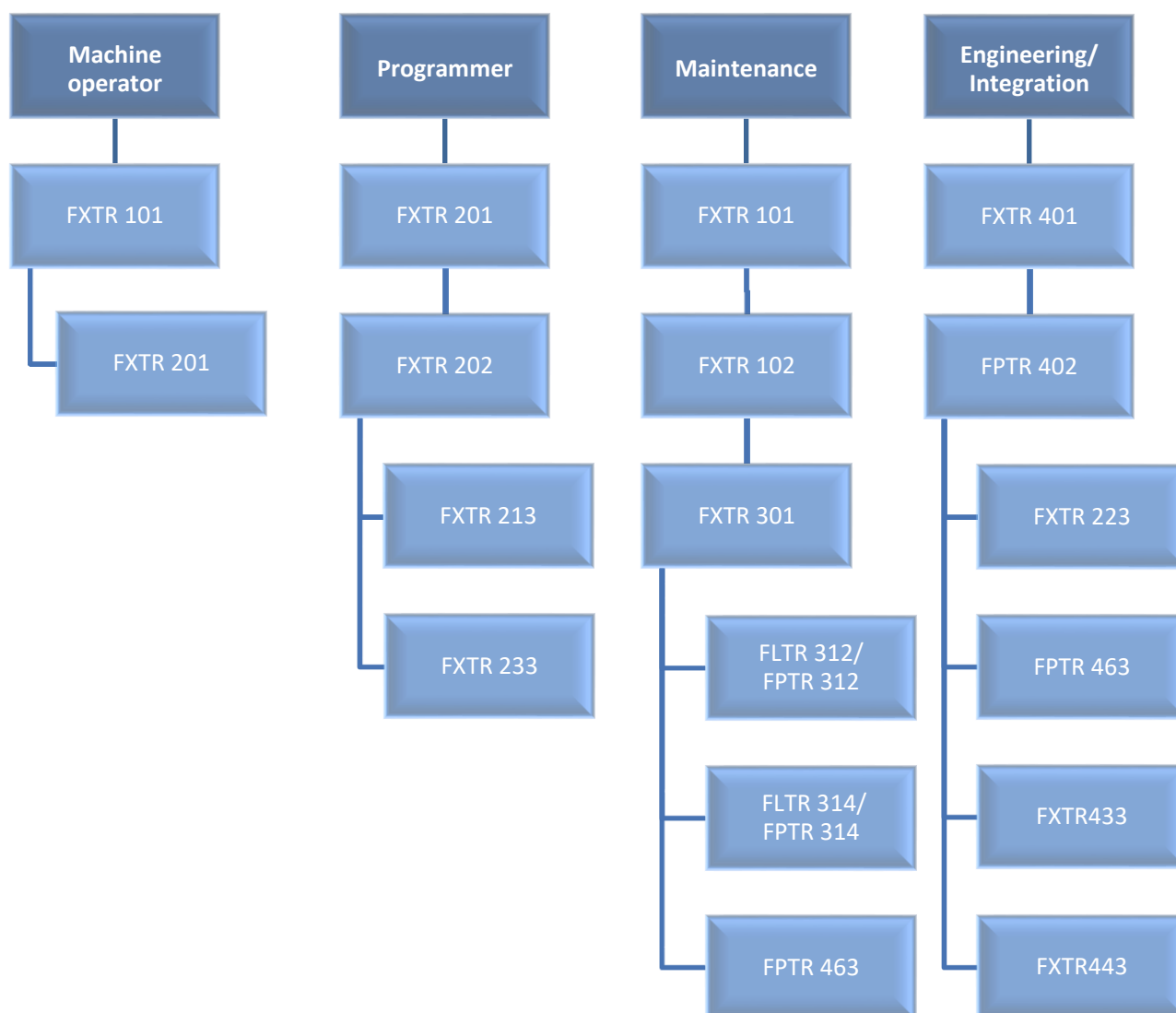
Flexium-Specific Training Sessions

FLTR 312	Flexium advanced maintenance
FLTR 314	NUMDrive C advanced maintenance

Flexium+-Specific Training Sessions

FPTR 312	Flexium+ system advanced maintenance
FPTR 314	NUMDrive X advanced maintenance
FPTR 402	Flexium+ system advanced setup
FPTR 463	Safety including NUM-SAMX

Proposed Training Paths



Your Training Contacts

China:

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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

Your area of interest	Prerequisite
General knowledge	None
Objectives	Supports
<ul style="list-style-type: none"> ✓ Understanding the Flexium range structure (CNCs and Drives) ✓ Understanding the main functions ✓ Ability to define a configuration with the Flexium catalogue 	<p>Training materials</p> <ul style="list-style-type: none"> ○ Individual components ○ Simulator <p>Deliveries</p> <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick) ○ Flexium catalogue (on memory stick)
Training Content	
<p>Flexium CNC presentation</p> <ul style="list-style-type: none"> ○ The different models of CNCs ○ Hardware structure – Software functions <p>The panels</p> <ul style="list-style-type: none"> ○ PC Panels ○ Machine panels <p>The PLC</p> <ul style="list-style-type: none"> ○ Structure ○ Programming languages ○ IOs <p>NUMDrive C presentation</p> <ul style="list-style-type: none"> ○ Hardware structure ○ Drives functions and performances ○ Axes and spindle motors 	<p>NUMDrive X presentation</p> <ul style="list-style-type: none"> ○ Hardware structure ○ Drives functions and performances ○ Axes and spindle motors <p>Tools</p> <ul style="list-style-type: none"> ○ PLC programming ○ Web tools <p>Applications</p> <ul style="list-style-type: none"> ○ From the single unit CNC to the multi CNC - multi panels configurations <p>Questions and answers (1/2 hour)</p>
Duration	Date / Costs
1 day	Please consult your local training contact

Flexium and Safety

FXTR 102

Your area of interest	Prerequisite
General knowledge	None
Objectives	Supports
<ul style="list-style-type: none"> ✓ Understanding the Flexium and Flexium+ safety concepts ✓ Understanding the various safety features ✓ Ability to define the components and development required for a particular configuration 	<p>Training materials</p> <ul style="list-style-type: none"> ○ Individual components ○ Simulator <p>Deliveries</p> <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick) ○ Flexium catalogue (on memory stick)
Training Content	
<p>Safety: What is it?</p> <ul style="list-style-type: none"> ○ Safety PLCs ○ Safe motions ○ Safety level <p>General on EtherCAT and FSoE</p> <p>The Safe PLC</p> <ul style="list-style-type: none"> ○ Structure ○ Programming languages ○ I/Os 	<p>Safety and Motions</p> <ul style="list-style-type: none"> ○ SAM, STO and NUMDrive C ○ SAMX, STOX and NUMDrive X <p>Questions and answers (1/2 hour)</p>
Duration	Date / Costs
1 day	Please consult your local training contact

Operation and basic maintenance

FXTR 201

Your area of interest	Prerequisite
Machine operator – 1 st level maintenance	Knowledge of NUM products or FXTR 101
Objectives	Supports
<ul style="list-style-type: none"> ✓ 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 	<p>Training materials</p> <ul style="list-style-type: none"> ○ Individual components ○ Simulator <p>Deliveries</p> <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick) ○ Programming manual (on memory stick)
Training Content	
<p>Operation</p> <ul style="list-style-type: none"> ○ Using the HMI ○ Modes of operation ○ ISO concepts (interpolation – feed rate – tools offsets – main canned cycles) ○ Coordinate systems – programmable axes ○ Work preparation, tools offsets, origin presets ○ Basic of parametric programming <p>Maintenance</p> <ul style="list-style-type: none"> ○ Status indicators ○ Operators messages ○ LED indications ○ Backup of essential data ○ Adding a system option 	<p>Tools</p> <ul style="list-style-type: none"> ○ Web tools ○ Flexium license loader <p>Questions and answers (2 hours)</p>
Duration	Date / Costs
2½ days	Please consult your local training contact

Advanced part programming

FXTR 202

Your area of interest	Prerequisite
Advanced part programming – custom macros – special functions for OEM	Level FXTR 201
Objectives	Supports
<ul style="list-style-type: none"> ✓ Mastering the advanced ISO functions of the system ✓ Ability to create a custom macro (tool changer – milling head exchange – probing etc.) 	<p>Training materials</p> <ul style="list-style-type: none"> ○ Individual components ○ Simulator <p>Deliveries</p> <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick) ○ Programming and advanced programming manual (CD)
Training Content	
<p>Advanced ISO functions</p> <ul style="list-style-type: none"> ○ Polar programming ○ Probing management ○ Pocket cycles ○ Complements on parametric programming <ul style="list-style-type: none"> ▪ Detailed information on E parameters ▪ Relation with the outside via the PLC ○ Structured programming ○ Dynamic operators ○ Customized G codes <p>Exercises</p> <p>Questions and answers</p>	
Duration	Date / Costs
2½ days	Please consult your local training contact

Flexium 3D

FXTR 213

Your area of interest	Prerequisite
Machine operation - Programming	Knowledge of NUM products or FXTR 201
Objectives	Supports
<ul style="list-style-type: none"> ✓ Using Flexium 3D to validate a part program ✓ Interacting with Flexium HMI to correct possible programming faults ✓ Optional : Customizing Flexium 3D for machine simulation 	<p>Training materials</p> <ul style="list-style-type: none"> ○ Simulator <p>Deliveries</p> <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick)
Training Content	
<p>Flexium 3D presentation</p> <ul style="list-style-type: none"> ○ Principle of operation ○ The different screens <p>Running Flexium 3D</p> <ul style="list-style-type: none"> ○ Program configuration ○ Defining the blank and the tools ○ Off line and On line simulation <p>Exercises</p> <p>Optional</p> <ul style="list-style-type: none"> ○ Designing a machine model <p>Questions and answers (2 hours)</p>	
Duration	Date / Costs
1 day + 1 day optional	Please consult your local training contact

Dynamic operators in C

FXTR 223

Your area of interest	Prerequisite
General knowledge	FXTR 202 and C language
Objectives	Supports
<ul style="list-style-type: none"> ✓ Develop an application using dynamic operators in C 	<p>Training materials</p> <ul style="list-style-type: none"> ○ Individual components ○ Simulator <p>Deliveries</p> <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick) ○ Flexium catalogue (on memory stick)
Training Content	
<ul style="list-style-type: none"> ○ Principle of dynamic operators ○ Short example using classic dynamic operators ○ Review list of parameters ○ The compiler ○ Examples ○ Trace and debug 	
Duration	Date / Costs
1 day	Please consult your local training contact

High Speed Cutting – 5 axes functions

FXTR 233

Your area of interest	Prerequisite
General knowledge	FXTR 202 and FXTR 401
Objectives	Supports
<ul style="list-style-type: none"> ✓ Mastering 5 axes machining functions ✓ RTCP (Rotating Tool Centre Point) ✓ Inclined plane ✓ High speed cutting 	<p>Training materials</p> <ul style="list-style-type: none"> ○ Individual components ○ Simulator <p>Deliveries</p> <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick) ○ Flexium catalogue (on memory stick)
Training Content	
<ul style="list-style-type: none"> ○ NC 5 axes functions ○ RTCP and inclined plane parameterization ○ Application ○ High speed machining functions ○ Speed and acceleration controls ○ Optimization of parameters 	<ul style="list-style-type: none"> ○ Axes adjustments ○ Flexium tools instruments ○ Practical case <p>Questions and answers (1/2 hour)</p>
Duration	Date / Costs
2 days	Please consult your local training contact

Flexium system maintenance

FXTR 301

Your area of interest	Prerequisite
Maintenance	Level FXTR 101
Objectives	Supports
<ul style="list-style-type: none"> ✓ Ability to detect and replace defective components in a short time ✓ Predictive maintenance 	<p>Training materials</p> <ul style="list-style-type: none"> ○ Simulator <p>Deliveries</p> <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick)
Training Content	
<p>Flexium system maintenance</p> <ul style="list-style-type: none"> ○ System structure ○ Components ○ System startup ○ Diagnostics ○ Software updates ○ Service tool ○ Safety ○ Part replacement <p>Drives maintenance</p> <ul style="list-style-type: none"> ○ Product knowledge ○ Drives exchange procedure <p>Questions and answers (1 hour)</p>	
Duration	Date / Costs
2½ days	Please consult your local training contact

Flexium system advanced maintenance

FLTR 312

Your area of interest	Prerequisite
Maintenance	Level FXTR 301
Objectives	Supports
<ul style="list-style-type: none"> ✓ Ability to detect and replace defective components in a short time ✓ Predictive maintenance 	<p>Training materials</p> <ul style="list-style-type: none"> ○ Simulator <p>Deliveries</p> <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick)
Training Content	
<p>Flexium system maintenance</p> <ul style="list-style-type: none"> ○ Detailing the product structure ○ Exchange zone ○ Troubleshooting with Flexium HMI ○ Flexium Tools ○ Parameters modification ○ Debugging with the PLC ○ PLC program adjustments ○ Backup and restore 	<p>NUMDrive C advanced maintenance</p> <ul style="list-style-type: none"> ○ Detailed analysis ○ Drives instruments ○ Drives exchange procedure ○ Safety application maintenance <p>Questions and answers (1 hour)</p>
Duration	Date / Costs
3 days	Please consult your local training contact

Flexium+ system advanced maintenance

FPTR 312

Your area of interest	Prerequisite
Maintenance	Level FXTR 301
Objectives	Supports
<ul style="list-style-type: none"> ✓ Ability to detect and replace defective components in a short time ✓ Predictive maintenance 	<p>Training materials</p> <ul style="list-style-type: none"> ○ Simulator <p>Deliveries</p> <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick)
Training Content	
<p>Flexium+ system maintenance</p> <ul style="list-style-type: none"> ○ Detailing the product structure ○ Exchange zone ○ Troubleshooting with Flexium HMI ○ Flexium Tools ○ Parameters modification ○ Debugging with the PLC ○ PLC program adjustments ○ Backup and restore 	<p>NUMDrive X drives advanced maintenance</p> <ul style="list-style-type: none"> ○ Detailed analysis ○ Drives instruments ○ Drives exchange procedure ○ Safety application maintenance <p>Questions and answers (1 hour)</p>
Duration	Date / Costs
3 days	Please consult your local training contact

NUMDrive C advanced maintenance

FLTR 314

Your area of interest	Prerequisite
Machine maintenance	Level FXTR 301
Objectives	Supports
<ul style="list-style-type: none"> ✓ Ability to detect and replace components or adjust parameters 	<p>Training materials</p> <ul style="list-style-type: none"> ○ Simulator <p>Deliveries</p> <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick)
Training Content	
<p>Review</p> <ul style="list-style-type: none"> ○ Range description ○ Troubleshooting with Flexium HMI <p>Components connections</p> <ul style="list-style-type: none"> ○ Structure of a NUMDrive C application <p>Adjustments</p> <ul style="list-style-type: none"> ○ Using Flexium Tools for diagnostic ○ Main drive parameters ○ Adjustment and control <p>Questions and answers</p>	
Duration	Date / Costs
2½ days	Please consult your local training contact

NUMDrive X advanced maintenance

FPTR 314

Your area of interest	Prerequisite
Machine maintenance	Level FXTR 301
Objectives	Supports
<ul style="list-style-type: none"> ✓ Ability to detect and replace components or adjust parameters 	<p>Training materials</p> <ul style="list-style-type: none"> ○ Simulator <p>Deliveries</p> <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick)
Training Content	
<p>Review</p> <ul style="list-style-type: none"> ○ Range description ○ Troubleshooting with Flexium HMI <p>Components connections</p> <ul style="list-style-type: none"> ○ Structure of a NUMDrive X application <p>Adjustments</p> <ul style="list-style-type: none"> ○ Using Flexium Tools for diagnostic ○ Main drive parameters ○ Adjustment and control <p>Questions and answers</p>	
Duration	Date / Costs
2½ days	Please consult your local training contact

Flexium system initial setup

FXTR 401

Your area of interest	Prerequisite
Engineering and Setup	FXTR 201
Objectives	Supports
<ul style="list-style-type: none"> ✓ Create a first Flexium application for a machine ✓ Control basic functions – Run two axes and a spindle 	<p>Training materials</p> <ul style="list-style-type: none"> ○ Simulator <p>Deliveries</p> <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick) ○ Installation manual – Commissioning manual – Flexium Tools (all on memory stick)
Training Content	
<p>Understanding Flexium structure</p> <p>Flexium Tools presentation</p> <ul style="list-style-type: none"> ○ Getting familiar with the package ○ Languages ○ Variables ○ Structure of a project <p>Practical exercise</p> <ul style="list-style-type: none"> ○ 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 	<p>Questions and answers</p>
Duration	Date / Costs
5 days	Please consult your local training contact

Flexium+ system advanced setup

FPTR 402

Your area of interest	Prerequisite
Engineering and Setup	FXTR 401
Objectives	Supports
<ul style="list-style-type: none"> ✓ Commissioning a Flexium system on any kind of machine 	<p>Training materials</p> <ul style="list-style-type: none"> ○ Simulator <p>Deliveries</p> <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick) ○ Full set of Flexium manuals – Flexium Tools – Example project (all on memory stick)
Training Content	
<p>Detailed analysis of exchange variables</p> <p>Flexium Tools complements</p> <ul style="list-style-type: none"> ○ 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 	<p>Questions and answers</p>
Duration	Date / Costs
5 days	Please consult your local training contact

NUMDrive C on CANopen

FXTR 423

Your area of interest	Prerequisite
Engineering and Setup	F?TR 402 required
Objectives	Supports
<ul style="list-style-type: none"> ✓ Control of one or more NUMDrive C over CANopen 	<p>Training materials</p> <ul style="list-style-type: none"> ○ Simulator <p>Deliveries</p> <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick) ○ Full set of Flexium manuals – Flexium Tools – Example project (all on memory stick)
Training Content	
<p>Recalls on CANopen</p> <p>NUMDrive C library</p> <ul style="list-style-type: none"> ○ Available parameters and functions <p>Application</p> <ul style="list-style-type: none"> ○ Parameters settings ○ Position control ○ Velocity control <p>Questions and answers</p>	
Duration	Date / Costs
2 days	Please consult your local training contact

Extended NCK Access (ENA)

FXTR 433

Your area of interest	Prerequisite
Engineering and Setup	F?TR 402 required
Objectives	Supports
<ul style="list-style-type: none"> ✓ Exchange of additional data between NCK and PLC 	Training materials <ul style="list-style-type: none"> ○ Simulator Deliveries <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick) ○ Flexium Tools – Example project
Training Content	
Structure of internal communication in Flexium systems	
ENA library <ul style="list-style-type: none"> ○ Available parameters and functions 	
Application <ul style="list-style-type: none"> ○ Reading parameters ○ Writing parameters ○ Files management 	
Questions and answers	
Duration	Date / Costs
2 days	Please consult your local training contact

Flexium HMI personalization

FXTR 443

Your area of interest	Prerequisite
Engineering and Setup	<ul style="list-style-type: none"> ○ FXTR 101 ○ Windows knowledge ○ Programming knowledge of script languages
Objectives	Supports
<ul style="list-style-type: none"> ✓ Creating Flexium HMI custom pages in HTML/JavaScript 	<p>Training materials</p> <ul style="list-style-type: none"> ○ Simulator <p>Deliveries</p> <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick) ○ Software Development Kit access ○ Example (on memory stick)
Training Content	
<p>Introduction in the architecture of Flexium HMI</p> <p>Explanation of the Flexium HMI components</p> <ul style="list-style-type: none"> ○ FXBrowser ○ FXServer ○ FXLib ○ FXLog <p>Structure of configuration files</p> <ul style="list-style-type: none"> ○ FXServer.ini ○ FXUser.ini <p>Explanation of the FXServer architecture</p> <ul style="list-style-type: none"> ○ Event handling ○ task management ○ ... 	<p>Abstract of development tools</p> <p>Exercises related to practice using HTML and JavaScript</p> <ul style="list-style-type: none"> ○ Object instancing of the classes of the development components ○ Using of the development components ○ Characteristics of the array structure of event classes ○ Programming examples <p>Questions and answers</p>
Duration	Date / Costs
3 days	Please consult your local training contact

Communication with Flexium

FXTR 453

Your area of interest	Prerequisite
Engineering and Setup	<ul style="list-style-type: none"> ○ FXTR 101 ○ Windows knowledge ○ Knowledge of object oriented programming (OOP) and use of COM server
Objectives	Supports
<ul style="list-style-type: none"> ✓ Using of FXServer for the communication with the different components of Flexium 	<p>Training materials</p> <ul style="list-style-type: none"> ○ Simulator <p>Deliveries</p> <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick) ○ Software Development Kit access ○ Programming examples in C# and C++ (on memory stick)
Training Content	
<p>Introduction in the architecture of FXServer</p> <p>Explanation of the Flexium components (FXServer, FXLib, FXLog) and configuration file (FXServer.ini)</p> <p>Explanation of the FXServer architecture (Event handling, task management, ...)</p>	<p>Exercises related to practice using C#</p> <ul style="list-style-type: none"> ○ 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 <p>Questions and answers</p>
Duration	Date / Costs
3 days	Please consult your local training contact

Safety including NUM-SAMX

FPTR 463

Your area of interest	Prerequisite
Engineering and Setup	FXTR 102 or FPTR 402
Objectives	Supports
<ul style="list-style-type: none"> ✓ Understand concept. ✓ Program and setup a safety application on a Flexium system 	<p>Training materials</p> <ul style="list-style-type: none"> ○ Simulator <p>Deliveries</p> <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick) ○ Software Development Kit access ○ Example (on memory stick)
Training Content	
<p>Hardware structure</p> <p>Safety functions</p> <p>Safety application concept</p> <p>Safe PLC programming</p> <p>Drive functions</p> <ul style="list-style-type: none"> ○ NUM-STOX setup ○ NUM-SAMX setup <p>Questions and answers</p>	
Duration	Date / Costs
2 days	Please consult your local training contact

Individual training

Your area of interest	Prerequisite
Something around NUM controls	Depending on the training content
Objectives	Supports
✓ Will be defined with you	Training materials <ul style="list-style-type: none"> ○ Simulator Deliveries <ul style="list-style-type: none"> ○ Course presentation (printed and .pdf on memory stick) ○ Example (on memory stick) if available
Training Content	
Will be developed with you	
Duration	Date / Costs
To be defined	Please consult your local training contact

Individual training courses can be held at NUM locations or at the customer's site.

Booking Form

For booking of training, please send an e-mail to following address with content below:

China: jane.liu@num.com

India: info.in@num.com

**Taiwan and
rest of Asia:** johnny.wu@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: