CNC Power Engineering
Always on the move

CNC and Drives

Training catalogue 2023

num
CNC HighEnd Applications

Who 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 an end-user, an OEM, a maintenance specialist or a system builder; NUM has a large variety of all kinds of training sessions in its catalog dedicated to your applications and for all generations of NUM products that are running production on machines today.

Of course, each customer has their own requirements, and each machine and each application has its own special features; and that is why we can also offer customized training sessions that are tailored to focus on your particular and individual 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 acquire all the information you need to be successful. These sessions are conducted by training specialists and application engineers so you can be assured that you are receiving the most accurate and helpful answers, whatever your question or concern might be. Give us a chance to help you be successful and develop a cooperative relationship between our companies for the benefit of all.

Content list

![num logo]

Training with NUM: your advantages

- All technical data and information is up to date
- If you need to learn about 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 take place either 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 with Flexium Tools
FXTR 321	Flexium system maintenance without Flexium Tools
FXTR 433	Extended NCK Access (ENA)
FXTR 443	Flexium HMI personalization

Flexium-Specific Training Sessions

FLTR 312	Flexium advanced maintenance

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Flexium$^+$-Specific Training Sessions

FPTR 312	Flexium$^+$ system advanced maintenance
FPTR 314	NUMDrive X advanced maintenance
FPTR 401	Flexium$^+$ system initial setup
FPTR 402	Flexium$^+$ system advanced setup
FPTR 463	Safety including NUM-SAMX

Axium Power-Specific Training Session

APTR 201	Axium Power system maintenance

Proposed Training Paths

Machine operator
- FXTR 101
  - FXTR 201

Programmer
- FXTR 201
  - FXTR 202
    - FXTR 213
    - FXTR 233

Maintenance
- FXTR 101
  - FXTR 102
    - FXTR 301
      - FLTR 312/ FPTR 312
      - FPTR 314
      - FPTR 463
  - FXTR 321

Engineering/ Integration
- FPTR 401
  - FPTR 402
    - FXTR 223
    - FPTR 463
    - FXTR 433
    - FXTR 443
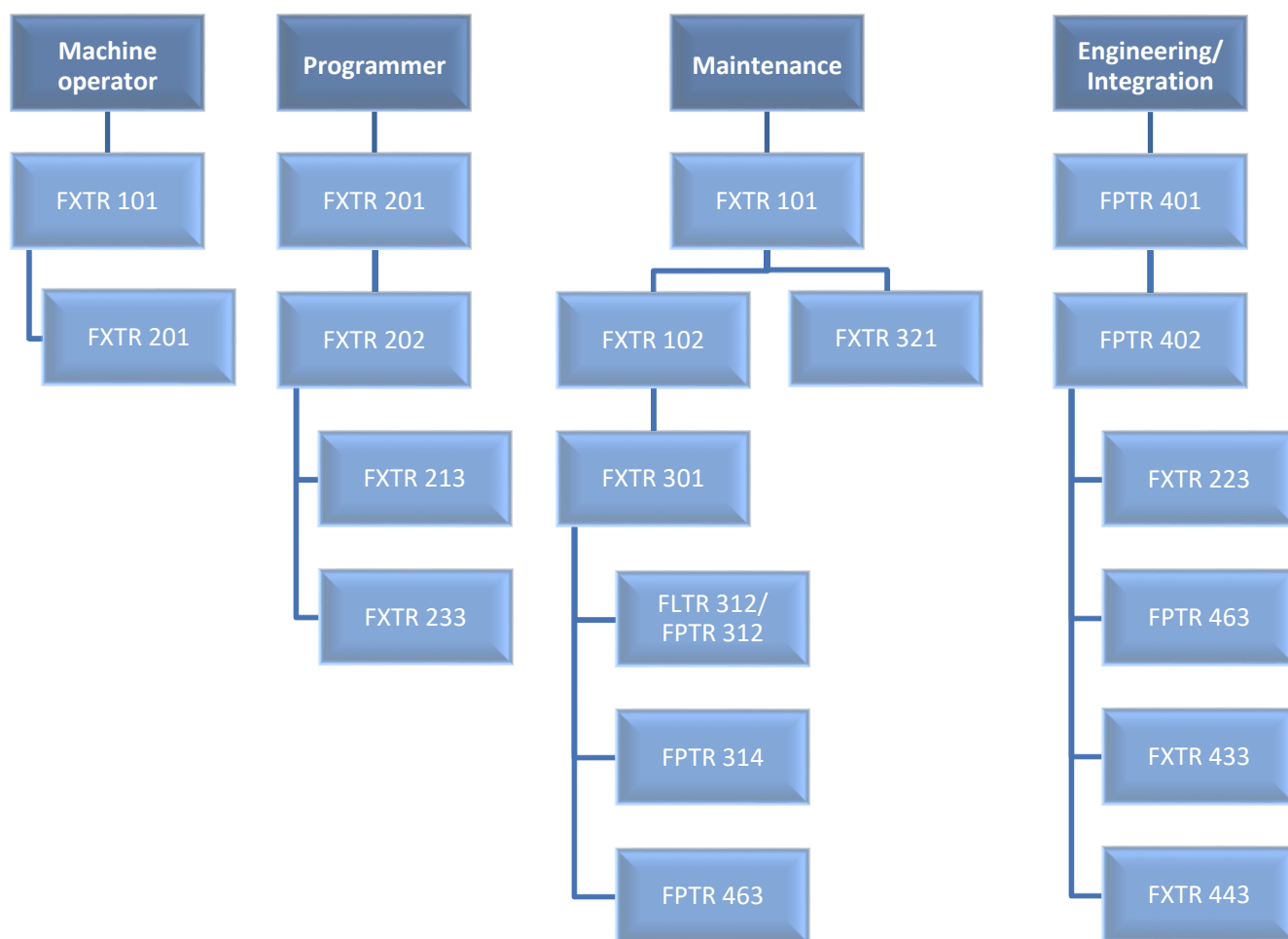
Course Schedule

CLASS	CLASS TYPE	SYSTEM	1st QUARTER	2nd QUARTER	3rd QUARTER	4th QUARTER
FXTR 201 (2.5 days)	Operations - Basic Programming	Flexium & Flexium+	1/23 to 1/25	4/24 to 4/26	7/24 to 7/26	10/23 to 10/25
FXTR 202 (2.5 days)	Adv. ISO Programming	Flexium & Flexium+	1/25 to 1/27	4/26 to 4/28	7/26 to 7/28	10/25 to 10/27
FXTR 301 (2.5 days)	System Maintenance	Flexium & Flexium+	1/30 to 2/1		7/31 to 8/2	
FPTR 301 (2.5 days)	System Maintenance	Flexium+		5/1 to 5/3		10/30 to 11/1
FXTR 321 (2.5 days)	System Maintenance	Flexium & Flexium+	2/6 to 2/8		8/7 to 8/9	
FPTR 401 (5 days)	Flexium+ System Integration	Flexium+ & MDLUX		5/15 to 5/19		11/27 to 12/1
Seminar	General	Flexium+ & MDLUX		5/24 (Webinar)		11/8 (Webinar)

1- For course that are not listed in the schedule please contact NUM USA directly.
2- Training for older NUM platform can be schedule as "Individual Training".

Your training contacts

USA:

Engineering Department

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*For other countries, please contact your local sales representative or NUM Switzerland.

Course Descriptions

Flexium system description   FXTR 101

Your area of interest

General knowledge

Prerequisite or Equivalent Knowledge

None

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
o Individual components
o Simulator

Deliveries
o Course presentation (printed and .pdf on CD)
o Flexium catalogue (on CD)

Training Content

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

The panels
o PC Panels
o Machine panels

The PLC
o Structure
o Programming languages
o IOs

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

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

Tools
o PLC programming
o Web tools

Applications
o 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

Your area of interest	**Prerequisite or Equivalent Knowledge**

General knowledge

FXTR101

Objectives

Supports

✓ Understanding the Flexium and Flexium⁺ safety concepts

✓ Understanding the various safety features

✓ Ability to define the components and development required for a particular configuration

Training materials
o Individual components
o Simulator

Deliveries
o Course presentation (printed and .pdf on CD)
o Flexium catalogue (on CD)

Training Content

Safety: What is it?
o Safety PLCs
o Safe motions
o Safety level

General on EtherCAT and FSoE

The Safe PLC
o Structure
o Programming languages
o I/Os

Safety and Motions
o SAM, STO and NUMDrive C
o SAMX, STOX and NUMDrive X

Questions and answers (1/2 hour)

Duration

Date / Costs

1 day

Please consult your local training contact

Operation and Diagnostics FXTR 201

Your area of interest

Machine operator – 1st level maintenance

Prerequisite or Equivalent Knowledge

FXTR101 or equivalent

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
o Individual components
o Simulator

Deliveries
o Course presentation (printed and .pdf on CD)
o Programming manual (CD)

Training Content

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

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

Tools
o Web tools
o Flexium license loader

Questions and answers (2 hours)

Duration

2.5 days

Date / Costs

Please consult your local training contact

Advanced part programming   FXTR 202

Your area of interest

Advanced part programming – custom macros –
special functions for OEM

Prerequisite or Equivalent Knowledge

FXTR201

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
o Individual components
o Simulator

Deliveries
o Course presentation (printed and .pdf on CD)
o Programming and advanced programming
   manual (CD)

Training Content

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

Exercises

Questions and answers

Duration

2.5 days

Date / Costs

Please consult your local training contact

Flexium 3D
FXTR 213

Your area of interest

Machine operation - Programming

Prerequisite or Equivalent Knowledge

FXTR202

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
o Simulator

Deliveries
o Course presentation (printed and .pdf on CD)

Training Content

Flexium 3D presentation
o Principle of operation
o The different screens

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

Exercises

Optional
o 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 or Equivalent Knowledge

FXTR202 and programming C language

Objectives

✓ Develop an application using dynamic operators in C

Supports

Training materials
o Individual components
o Simulator

Deliveries
o Course presentation (printed and .pdf on CD)
o Flexium catalogue (on CD)

Training Content

o Principle of dynamic operators

o Short example using classic dynamic operators

o Review list of parameters

o The compiler

o Examples

o Trace and debug

Duration

1 day

Date / Costs

Please consult your local training contact

High Speed Cutting – 5 axes functions FXTR 233

Your area of interest

General knowledge

Prerequisite or Equivalent Knowledge

FXTR202 or FPTR 401

Objectives

✓ Mastering 5 axes machining functions

✓ RTCP (Rotating Tool Centre Point)

✓ Inclined plane

✓ High speed cutting

Supports

Training materials
o Individual components
o Simulator

Deliveries
o Course presentation (printed and .pdf on CD)
o Flexium catalogue (on CD)

Training Content

o NC 5 axes functions

o RTCP and inclined plane parameterization

o Application

o High speed machining functions

o Speed and acceleration controls

o Optimization of parameters

o Axes adjustments

o Flexium tools instruments

o Practical case

Questions and answers (1/2 hour)

Duration

2 days

Date / Costs

Please consult your local training contact

Flexium system maintenance with Flexium Tools   **FXTR 301**

Your area of interest

Maintenance

Prerequisite or Equivalent Knowledge

FXTR102

Objectives

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

- ✓ Predictive maintenance

Supports

Training materials
- o Simulator

Deliveries
- o Course presentation (printed and .pdf on CD)

Training Content

Flexium system maintenance
- o System structure
- o Components
- o System startup
- o Diagnostics
- o Software updates
- o Service tool
- o Safety
- o Backup and Restore procedures
- o Part replacement

Drives maintenance
- o Product knowledge
- o Drives exchange procedure

Questions and answers (1 hour)

Duration

2.5 days

Date / Costs

Please consult your local training contact

Flexium system maintenance without Flexium Tools FXTR 321

Your area of interest

Maintenance

Prerequisite or Equivalent Knowledge

FXTR102

Objectives

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

✓ Predictive maintenance

Supports

Training materials
o Simulator

Deliveries
o Course presentation (printed and .pdf on CD)

Training Content

Flexium system maintenance
o System structure
o Components
o System startup
o Diagnostics
o Software updates
o Service tool
o Safety
o Backup and Restore procedures
o Part replacement

Drives maintenance
o Product knowledge
o Drives exchange procedure

Questions and answers (1 hour)

Duration

2.5 days

Date / Costs

Please consult your local training contact

Flexium system advanced maintenance   FLTR 312

Your area of interest

Maintenance

Prerequisite or Equivalent Knowledge

FXTR301

Objectives

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

- ✓ Predictive maintenance

Supports

Training materials
- o Simulator

Deliveries
- o Course presentation (printed and .pdf on CD)

Training Content

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

NUMDrive C advanced maintenance
- o Detailed analysis
- o Drives instruments
- o Drives exchange procedure

- o Safety application maintenance

Questions and answers (1 hour)

Duration

3 days

Date / Costs

Please consult your local training contact

Flexium⁺ system advanced maintenance   FPTR 312

Your area of interest

Maintenance

Prerequisite or Equivalent Knowledge

FXTR301

Objectives

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

- ✓ Predictive maintenance

Supports

Training materials
- o Simulator

Deliveries
- o Course presentation (printed and .pdf on CD)

Training Content

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

NUMDrive X drives advanced maintenance
- o Detailed analysis
- o Drives instruments
- o Drives exchange procedure

- o 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 or Equivalent Knowledge

FXTR301

Objectives

✓ Ability to detect and replace components or adjust parameters

Supports

Training materials
o Simulator

Deliveries
o Course presentation (printed and .pdf on CD)

Training Content

Review
o Range description
o Troubleshooting with Flexium HMI

Components connections
o Structure of a NUMDrive X application

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

Questions and answers

Duration

2.5 days

Date / Costs

Please consult your local training contact

Flexium⁺ system initial setup   FPTR 401

Your area of interest

Engineering and Setup

Prerequisite or Equivalent Knowledge

FXTR201

Objectives

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

Supports

Training materials
- o Simulator

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

Training Content

Understanding Flexium⁺ structure

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

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

Questions and answers

Duration

5 days

Date / Costs

Please consult your local training contact

Flexium⁺ system advanced setup

Your area of interest	**Prerequisite or Equivalent Knowledge**
Engineering and Setup	FPTR 401

Objectives

Supports

✓ Commissioning a Flexium system on any kind of machine

Training materials
- Simulator

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

Training Content

Detailed analysis of exchange variables

Questions and answers

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

Duration

Date / Costs

5 days

Please consult your local training contact

Extended NCK Access (ENA)   FXTR 433

Your area of interest

Engineering and Setup

Prerequisite or Equivalent Knowledge

FPTR402

Objectives

✓ Exchange of additional data between NCK and PLC

Supports

Training materials
o Simulator

Deliveries
o Course presentation (printed and .pdf on CD)
o Flexium Tools – Example project

Training Content

Structure of internal communication in Flexium systems

ENA library
o Available parameters and functions

Application
o Reading parameters
o Writing parameters
o Files management

Questions and answers

Duration

2 days

Date / Costs

Please consult your local training contact

Flexium HMI personalization　　　　　　　FXTR 443

Your area of interest

Engineering and Setup

Prerequisite or Equivalent Knowledge

- o FXTR101
- o Windows knowledge
- o Programming knowledge of script languages

Objectives

- ✓ Creating Flexium HMI custom pages in HTML/JavaScript

Supports

Training materials
- o Simulator

Deliveries
- o Course presentation (printed and .pdf on CD)
- o Software Development Kit access
- o Example (on CD)

Training Content

Introduction in the architecture of Flexium HMI

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

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

Explanation of the FXServer architecture
- o Event handling
- o task management
- o …

Abstract of development tools

Exercises related to practice using HTML and JavaScript
- o Object instancing of the classes of the development components
- o Using of the development components
- o Characteristics of the array structure of event classes
- o 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 or Equivalent Knowledge

- o FXTR101
- o Windows knowledge
- o 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
- o Simulator

Deliveries
- o Course presentation (printed and .pdf on CD)
- o Software Development Kit access
- o Programming examples in C# and C++ (on CD)

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#
- o Object referencing and instancing of the classes of the development components
- o Using of the development components
- o Characteristics of the array structure of event classes
- o Programming examples

Questions and answers

Duration

3 days

Date / Costs

Please consult your local training contact

Safety including NUM-SAMX FPTR 463

Your area of interest

Engineering and Setup

Prerequisite or Equivalent Knowledge

FXTR102 or FPTR402

Objectives

- ✓ Understand concept.

- ✓ Program and setup a safety application on a Flexium system

Supports

Training materials
- o Simulator

Deliveries
- o Course presentation (printed and .pdf on CD)
- o Software Development Kit access
- o Example (on CD)

Training Content

Hardware structure

Safety functions

Safety application concept

Safe PLC programming

Drive functions
- o NUM-STOX setup
- o NUM-SAMX setup

Questions and answers

Duration

2 days

Date / Costs

Please consult your local training contact

Axium Power system maintenance

APTR 201

Your area of interest

Maintenance

Prerequisite or Equivalent Knowledge

None

Objectives

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

✓ Predictive maintenance

Supports

Training materials
o Simulator

Deliveries
o Course presentation (printed and .pdf on CD)

Training Content

Axium system maintenance
o System structure
o Components
o System startup
o Diagnostics
o Software updates
o Service tool
o Safety
o Part replacement

Drives maintenance
o Product knowledge
o Drives exchange procedure

Questions and answers (1 hour)

Duration

5 days

Date / Costs

Please consult your local training contact

Individual trainings

Your area of interest

Something around NUM controls

Prerequisite or Equivalent Knowledge

Depending on the training content

Objectives

✓ Will be defined with you

Supports

Training materials
o Simulator

Deliveries
o Course presentation (printed and .pdf on CD)
o Example (on CD) 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.

Seminar

Your area of interest

General

Prerequisite or Equivalent Knowledge

None

Objectives

✓ Present NUM's newest innovations in CNC, servo motors and drive technology

Supplementary Items

Training materials
o Simulator

Media
o Course presentation (.pdf on USB)
o Example (on USB) if available

Training Content

Topics include the newest innovations in CNC, servo motors and drive technology. Additional topics include NUM services, maintenance techniques and a range of innovative complete solutions for CNC and machine tool retrofits

Duration

0.5 days

Date / Costs

- Refer to Course Schedule
- Free of charge

Organization

Training Facilities   <u>United States</u>

NUM USA   Phone   +1 630 505 7722
603 E. Diehl Road Suite 115   Fax   +1 630 505 7754
Naperville, IL 60563   sales.us@num.com

Cost   Contact your local NUM office.

Time   Classes begin at 08:30 a.m. and end at about 5:00 p.m., with 1-hour lunch break.

Booking   All classes require a minimum of 3 persons. Insufficient enrollment 3 weeks prior to the class date will result in course cancellation.

Student cancellations will not be accepted within 3 weeks prior to the course start date. Student will be invoiced as if attending the course.

Booking form

For booking of training, please send an e-mail to sales.us@num.com with the following information:

- Company name
- Contact person
- Phone
- Address
- Purchase order number
- Training number
- Training date
- Training location
- Names of the participants

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

Journey to NUM USA

From O'Hare Int'l Airport
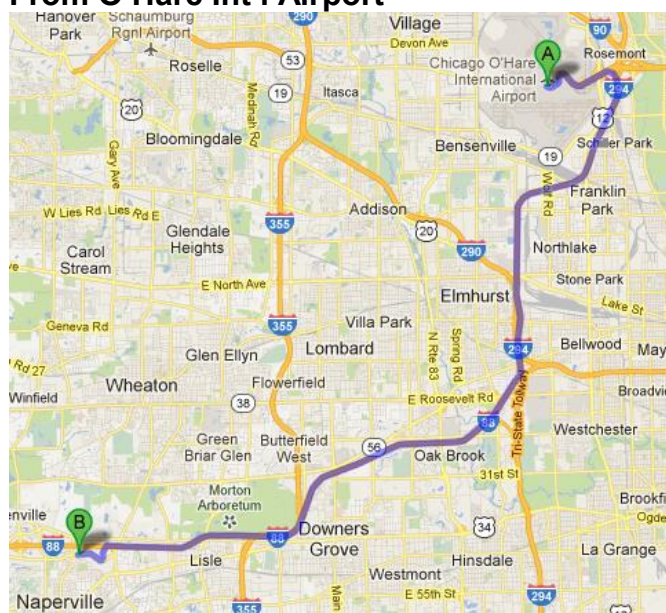
A Chicago O'Hare International Airport
10000 West O'Hare Avenue, Chicago, IL 60666

1. Head southeast About 2 mins	go 0.5 mi total 0.5 mi	
2. Take the ramp onto **I-190 E** About 3 mins	go 1.5 mi total 2.1 mi	
3. Take exit **1D** toward **I-294 S/Indiana/S Tollway**	go 0.4 mi total 2.4 mi	
4. Merge onto **I-294 S** Partial toll road About 11 mins	go 8.7 mi total 11.2 mi	
5. Take the **Interstate 88 West E-W Tollway** exit toward Aurora Toll road	go 0.4 mi total 11.6 mi	
6. Merge onto **I-88 W** Toll road About 15 mins	go 11.9 mi total 23.5 mi	
7. Take the exit toward **Naperville Road** About 1 min	go 0.5 mi total 23.9 mi	
8. Turn left onto **Freedom Dr** About 1 min	go 0.4 mi total 24.3 mi	
9. Turn right onto **E Diehl Rd** Destination will be on the left About 2 mins	go 0.7 mi total 25.0 mi	

B Num Corporation
603 E Diehl Rd, Naperville, IL 60563

From Midway Airport
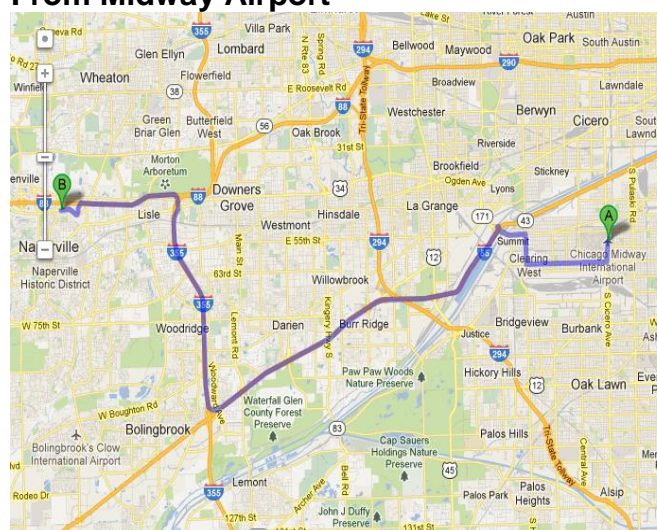
A Midway International Airport
5700 S Cicero Ave, Chicago, IL 60638

1. Head **south** on **S Cicero Ave** About 1 min	go 0.7 mi total 0.7 mi	
2. Turn right onto **W 63rd St** About 7 mins	go 3.0 mi total 3.7 mi	
3. Turn right onto **S Harlem Ave** About 2 mins	go 1.0 mi total 4.7 mi	
4. Turn left onto **S Archer Ave** About 2 mins	go 0.7 mi total 5.4 mi	
5. Continue onto **IL-171 N**	go 0.4 mi total 5.8 mi	
6. Take the **I-55 S** ramp to **St Louis**	go 0.4 mi total 6.2 mi	
7. Keep left at the fork and merge onto **I-55 S** About 13 mins	go 12.2 mi total 18.4 mi	
8. Take exit **269** for **Interstate 355 Tollway N/Interstate 355 Tollway S** toward **Northwest Suburbs/Southwest Suburbs** Toll road	go 0.4 mi total 18.7 mi	
9. Keep right at the fork, follow signs for **Interstate 355 N/Northwest Suburbs** and merge onto **I-355 N** Toll road About 7 mins	go 6.7 mi total 25.4 mi	
10. Take the exit toward **Aurora** Toll road About 2 mins	go 1.5 mi total 27.0 mi	
11. Merge onto **I-88 W** Toll road About 3 mins	go 2.6 mi total 29.6 mi	
12. Take the exit toward **Naperville Road** About 1 min	go 0.5 mi total 30.0 mi	
13. Turn left onto **Freedom Dr** About 1 min	go 0.4 mi total 30.4 mi	
14. Turn right onto **E Diehl Rd** Destination will be on the left About 2 mins	go 0.7 mi total 31.2 mi	

B Num Corporation
603 E Diehl Rd, Naperville, IL 60563

Hotel with NUM discount

Hampton Inn
1087 E. Diehl Road
(630) 505-1400
Continental breakfast included. Area shuttle, exercise room and seasonal outdoor pool available.
Ask for NUM USA rate to get a 25% discount.

Hotel Indigo Naperville Riverwalk - Downtown
120 Water Street
(630) 778 9676
Some customers prefer this downtown Riverwalk location with walking distance to shopping, restaurants, bars, etc... The Hotel has free wifi with full service restaurant serving breakfast, lunch, dinner, exercise room, free weights and cardio equipment. Complimentary shuttle service to and from NUM offices and within 5 mile radius of hotel - based upon availability.
Ask for the NUM Corporation rate. 15-25% off. (Corp ID 786866549, IATA# 99502056)