

Cylindrical Training Courses



Standard Courses

Basic Grinding Technology 60011921 4 days

Programming and Operator Training (Fanuc 16TB / 16i / 21i / Oi / 160i)

OD / ID Grinding 60011922 4 days

Programming and Operator Training (StuderWIN)

OD / ID Grinding 60011928 4 days

Programming and Operator Training (StuderWINfocus)

OD / ID Grinding 60011927 4 days

Advanced Programming and Operator Training

Advanced OD / ID Grinding 60011926 3 ½ days

Offline Programming

StuderGRIND Basic 60011944 2 days

StuderTechnology 60011945 1 day

StuderDress 60011946 1 day

StuderContour 60011948 2 days

StuderThread 60011949 2 days

StuderForm5 / Analysis 60011950 4 days

StuderFormHSM 60011951 4 days

StuderPunch 60011952 4 days

Training Request form

Standard Course

Order Number: 6001921

Basic Grinding Technology

Machine type:

This course is not machine specific

This course is guided for:

Engineers, Setup personnel and machine operators

Requirements:

Basic technical knowledge in machining

The goal of this course is:

To get educated in basic cylindrical grinding technology

Course content:

Grinding wheels (Aluminum oxide, cbn and diamond)
Wheel mounting, balancing and safety requirements
Dressing tool selection (stationary and rotative)
Workpiece clamping
Coolant selection (oil and emulsion)
Measuring
Grinding errors
Grinding technology calculations (Q'w, feeds, speeds and switch over points)
Grinding cycle selections
Steady rests (two point and three point steady)
Internal grinding

Languages:

English
Other languages available upon request

Number of participants:

Four to six

Course location:

United Grinding North America
510 Earl Boulevard
Miamisburg, OH 45342

Course duration:

4 days beginning on Monday at 1PM, ending by Friday noon

Price:

Per price list / price per person (does not include travel expenses)

United Grinding North America, Inc.
Headquarters / Billing • Cylindrical & Profile Divisions • 510 • Earl Boulevard • Miamisburg, OH 45342
Phone +1-937-859-1975 • Fax +1-937-859-1115 • ugt@grinding.com • www.grinding.com

Tool Division • 5160 Lad Land Drive • Fredericksburg, VA 22407
Phone +1-540-898-3700 • Fax +1-540-891-9475

Programming and Operator Training (Fanuc 16TB / 16i / 21i / Oi / 160i)

Order Number: 6001922

OD/ID Grinding

Machine type:

This course is guided for Studer CNC, OD- ID (universal) grinding machines

This course is guided for:

Engineers, Setup personnel and machine operators

Requirements:

Basic know how in ISO programming and general knowledge in CNC controls recommended

The goal of this course is:

To gain basic knowledge in CNC programming and setup including "Pictogramming"

Course content:

General control functions
Workpiece programming (for universal machines)
Random wheel forms
Contour cycle
Machine setup
"QuickSet"
Corrections / offsets

Languages:

English
Other languages available upon request

Number of participants:

Four to six

Course location:

United Grinding North America
510 Earl Boulevard
Miamisburg, OH 45342

Course duration:

4 days beginning on Monday at 1PM, ending by Friday noon

Price:

Per price list / price per person (does not include travel expenses)

Programming and Operator Training (StuderWIN)

Order Number: 60011928

OD/ID Grinding

Machine type:

This course is guided for Studer CNC, OD- ID (universal) grinding machines

This course is guided for:

Engineers, Setup personnel and machine operators

Requirements:

Basic know how in ISO programming and general knowledge in CNC controls recommended

The goal of this course is:

To gain basic knowledge in CNC programming and setup including "Pictogramming"

Course content:

General control functions
Workpiece programming (for universal machines)
Random wheel forms
Contour cycle
Machine setup
"QuickSet"
Corrections / offsets

Languages:

English
Other languages available upon request

Number of participants:

Four to six

Course location:

United Grinding North America
510 Earl Boulevard
Miamisburg, OH 45342

Course duration:

4 days beginning on Monday at 1PM, ending by Friday noon

Price:

Per price list / price per person (does not include travel expenses)

Programming and Operator Training (StuderWINfocus)

Order Number: 60011927

OD Grinding

Machine type:

This course is guided for Studer CNC, OD (S11) grinding machines

This course is guided for:

Engineers, Setup personnel and machine operators

Requirements:

Basic know how in ISO programming and general knowledge in CNC controls recommended

The goal of this course is:

The user attains a solid basic knowledge of the control with StuderWINfocus user interface within the area of external grinding

Course content:

General control functions
Workpiece programming (Micro-Functions)
Studer base value calculator
Machine setup
Loading Systems
Corrections / offsets

Languages:

English
Other languages available upon request

Number of participants:

Four to six

Course location:

United Grinding North America
510 Earl Boulevard
Miamisburg, OH 45342

Course duration:

4 days beginning on Monday at 1PM, ending by Friday noon

Price:

Per price list / price per person (does not include travel expenses)

Programming and Operator Training (Fanuc 0i / 16TB / 16i / 21i / StuderWin)

Order Number: 6001926

Advanced Training Course

Machine type:

This course is guided for Studer CNC OD / ID (universal) grinding machines

This course is guided for:

Engineers, Setup personnel and machine operators

Requirements:

The completion of Basic Programming and Setup course is required, or a minimum of 1 to 3 years experience with programming and setup of Studer machines. General understanding of ISO programming is preferred.

The goal of this course is:

To educate in programming of random wheel shapes and contour grind cycles, as well as customer specific advanced applications

Course content:

Profile random wheel forms
Contour grinding cycles
Extended dressing functions
G/M code functions
In Process Gauging
Steady rest applications
Micro functions
Touch dressing

**The above lessons will be covered on a customer specific basis as time allows

Languages:

English
Other languages available upon request

Number of participants:

Four to six

Course location:

United Grinding North America
510 Earl Boulevard
Miamisburg, OH 45342

Course duration:

3 ½ days beginning on Monday at 1PM, ending on Thursday at 3:30

Price:

Per price list / price per person (does not include travel expenses)

Offline Programming

Order Number: 60011944

StuderGrind Basic

Machine type:

This course is guided for the offline programming of Studer CNC, OD and ID grinding machines

This course is guided for:

Engineers, Setup personnel and machine operators

Requirements:

Basic knowledge in Windows based PC applications
General knowledge of Studer CNC OD- ID grinders
ISO programming know how recommended

The goal of this course is:

To gain basic knowledge in CNC, offline programming with StuderGRIND
Ability to program workpieces in StuderGRIND

Course content:

Navigation of StuderGRIND
Workpiece programming and managing data base
Examples
Data transfer with StCOM

Languages:

English
Other languages available upon request

Number of participants:

Four to six

Course location:

United Grinding North America
510 Earl Boulevard
Miamisburg, OH 45342

Course duration:

2 days beginning on Monday at 1PM, ending by Wednesday noon

Price:

Per price list / price per person (does not include travel expenses)

Offline Programming

Order Number: 60011945

StuderGrind Technology

Machine type:

This course is guided for the offline programming of Studer CNC, OD and ID grinding machines

This course is guided for:

Engineers, Setup personnel and machine operators
Employees of the quoting department

Requirements:

Knowledge of StuderGRIND Basic

The goal of this course is:

To gain basic knowledge in CNC, offline programming with StuderTechnology
Ability to program workpieces in StuderGRIND using StuderTechnology for programming, process simulation, and cost per piece calculations.

Course content:

Navigation of StuderTechnology
Workpiece programming, using technology values
Grinding Technology, Cycle time and cost calculations
Verify machine layouts
Examples

Languages:

English
Other languages available upon request

Number of participants:

Four to six

Course location:

United Grinding North America
510 Earl Boulevard
Miamisburg, OH 45342

Course duration:

1 day beginning on Wednesday at 1PM, ending by Thursday noon

Price:

Per price list / price per person (does not include travel expenses)

Offline Programming

Order Number: 60011946

StuderDress

Machine type:

This course is guided for the offline programming of Studer CNC, OD and ID grinding machines

This course is guided for:

Engineers, Setup personnel and machine operators

Requirements:

Knowledge of StuderGrind Basic

The goal of this course is:

To gain basic knowledge in CNC, offline programming with StuderDress
Ability to program workpieces in StuderGrind, using StuderDress for programming and efficient re-profiling of random wheel forms.

Course content:

Navigation of StuderDress
RE- profile random wheel forms
Examples

Languages:

English
Other languages available upon request

Number of participants:

Four to six

Course location:

United Grinding North America
510 Earl Boulevard
Miamisburg, OH 45342

Course duration:

2 days beginning on Monday at 1PM, ending by Wednesday noon

Price:

Per price list / price per person (does not include travel expenses)

Offline Programming

Order Number: 60011948

StuderContour

Machine type:

This course is guided for the offline programming of Studer CNC, OD and ID grinding machines with Fanuc TB controls, or newer

This course is guided for:

Engineers, Setup personnel and machine operators

Requirements:

Basic knowledge in Windows based PC applications
General knowledge of Studer CNC OD- ID grinders
Basic Knowledge in StuderGrind recommended
General knowledge in AutoCAD, or Vector helpful

The goal of this course is:

To gain basic knowledge in CNC, offline programming with StuderContour
Ability to generate contour grinding with StuderContour

Course content:

Navigation of StuderContour
Generating subroutines for contour or peel grinding cycles
Examples
Data transfer

Languages:

English
Other languages available upon request

Number of participants:

Four to six

Course location:

United Grinding North America
510 Earl Boulevard
Miamisburg, OH 45342

Course duration:

2 days beginning on Monday at 1PM, ending by Wednesday noon

Price:

Per price list / price per person (does not include travel expenses)

Offline Programming

Order Number: 60011949

StuderThread

Machine type:

This course is guided for the offline programming of Studer CNC, OD and ID grinding machines with Fanuc TB controls, or newer

This course is guided for:

Engineers, Setup personnel and machine operators

Requirements:

Basic knowledge in Windows based PC applications
General knowledge of Studer CNC OD- ID grinders
Basic Knowledge in StuderGRIND recommended
General knowledge in AutoCAD, or Vector helpful

The goal of this course is:

To gain basic knowledge in CNC, offline programming with StuderThread
Ability to generate standard and free form, axis parallel threads with StuderThread

Course content:

Navigation of StuderThread
Generating subroutines for thread grinding cycles
Practical examples
Data transfer

Languages:

English
Other languages available upon request

Number of participants:

Four to six

Course location:

United Grinding North America
510 Earl Boulevard
Miamisburg, OH 45342

Course duration:

2 days beginning on Wednesday at 1PM, ending by Friday noon

Price:

Per price list / price per person (does not include travel expenses)

Offline Programming

Order Number: 60011950

StuderForm / Analyses

Machine type:

This course is guided for the offline programming of Studer CNC, OD and ID grinding machines with Fanuc TB controls, or newer

This course is guided for:

Engineers, Setup personnel and machine operators

Requirements:

Basic knowledge in Windows based PC applications
General knowledge of Studer CNC OD- ID grinders
Basic Knowledge in StuderGrind recommended
General knowledge in AutoCAD, or Vector helpful

The goal of this course is:

To gain basic knowledge in CNC, offline programming with StuderForm and StuderAnalyses
Ability to generate "out of round" forms by using StuderForm and Vector
Utilize StuderAnalyses for process optimization

Course content:

Navigation of StuderForm and StuderAnalyses
Generating subroutines for "out of round" form grinding
Practical Examples
Data transfer

Languages:

English
Other languages available upon request

Number of participants:

Four to six

Course location:

United Grinding North America
510 Earl Boulevard
Miamisburg, OH 45342

Course duration:

4 days beginning on Monday at 1PM, ending by Friday noon

Price:

Per price list / price per person (does not include travel expenses)

Offline Programming

Order Number: 60011951

StuderFormHSM

Machine type:

This course is guided for the offline programming of Studer CNC, OD and ID grinding machines with Fanuc TB controls, or newer

This course is guided for:

Engineers, Setup personnel and machine operators

Requirements:

Basic knowledge in Windows based PC applications
General knowledge of Studer CNC OD- ID grinders
Basic Knowledge in StuderGrind recommended
General knowledge in AutoCAD, or Vector helpful

The goal of this course is:

To gain basic knowledge in CNC, offline programming with StuderFormHSM
Ability to generate "out of round" forms by using StuderFormHSM and Vector

Course content:

Navigation of StuderFormHSM
Generating subroutines for "out of round" form grinding with StuderHSM and Vector
Generating Grinding Technology data for "out of round" grinding with HSM
Practical Examples
Data transfer

Languages:

English
Other languages available upon request

Number of participants:

Four to six

Course location:

United Grinding North America
510 Earl Boulevard
Miamisburg, OH 45342

Course duration:

4 days beginning on Monday at 1PM, ending by Friday noon

Price:

Per price list / price per person (does not include travel expenses)

Offline Programming

Order Number: 60011952

StuderPunch

Machine type:

This course is guided for the offline programming of Studer CNC, OD and ID grinding machines with Fanuc TB controls, or newer

This course is guided for:

Engineers, Setup personnel and machine operators

Requirements:

Basic knowledge in Windows based PC applications
General knowledge of Studer CNC OD- ID grinders
Basic Knowledge in StuderGrind recommended
General knowledge in AutoCAD, or Vector helpful

The goal of this course is:

To gain basic knowledge in CNC, offline programming with StuderPunch
Ability to generate "out of round" forms by using StuderPunch and Vector
Grinding of punches with StuderPunch

Course content:

Navigation of StuderPunch
Generating subroutines for "out of round" form grinding with StuderPunch and Vector
Generating Grinding Technology data for "out of round" grinding with StuderPunch
Establishing Grinding Process data
Practical Examples
Data transfer

Languages:

English
Other languages available upon request

Number of participants:

Four to six

Course location:

United Grinding North America
510 Earl Boulevard
Miamisburg, OH 45342

Course duration:

4 days beginning on Monday at 1PM, ending by Friday noon

Price:

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Phone +1-540-898-3700 • Fax +1-540-891-9475

Training Request Form

Cylindrical Applications Department
510 Earl Blvd.
Miamisburg, OH 45342
Phone 937-847-1214 Fax 937-859-1115
Internet: <http://www.grinding.com>

Machine Serial Number	_____
Machine Type	_____
Control Type	_____

Order Form

Internal Information Only

Customer

Name _____
Address _____
City _____ State _____ ZIP _____
Phone _____
Fax _____
Email _____

Date Rec'd _____
Sched.By _____
UGT Location _____
Training Date _____
Record No. _____

Thank you for requesting a Training Request Form. Please fill out below and return.
Include the names of persons attending and requested training dates.
If training requested was purchased with machine, please include Machine P.O.

Persons	Description	Per Student	TOTAL
	Basic Grinding Technology (Program #60011921)	\$2,500.00	
	Fanuc 16i or 21i OD/ID Grinding (Program #60011922)	\$2,100.00	
	Fanuc StuderWIN OD/ID Grinding (Program #60011928)	\$2,100.00	
	Fanuc StuderWINfocus OD Grinding (Program #60011927)	\$2,100.00	
	Advanced Fanuc OD/ID Grinding (Program #60011926)	\$3,000.00	
	Additional participants in Advance Fanuc class	\$1,500.00	
	StuderGRIND Basic (Program #60011944) *	\$1,100.00	
	StuderTechnology (Program #60011945) *	\$550.00	
	StuderDress (Program #60011946) *	\$1,100.00	
	StuderContour (Program #60011948) *	\$1,100.00	
	StuderThread (Program #60011949) *	\$1,100.00	
	StuderForm5 / Analyses (Program #60011950) *	\$1,100.00	
	StuderFormHSM (Program #60011951) *	\$1,100.00	
	StuderPunch (Program #60011952) *	\$1,100.00	
	TOTAL		

**must bring laptop with installed copy of Software and License Key*

Dates:	Program Number:	Person Attending:	Machine to be operated after training:



Payment

Company P.O. Number
 Credit Card Master Card
 Credit Card Visa
 CC/PO # _____
 Name _____
 Expires _____

Office Use Only: _____

Thank you for your order. Every effort will be made to accommodate your requested training dates. Classes are scheduled on a first come, first served basis, and can only accommodate eight people. Should you require specialized training, tailored to your specific needs, please call the number below.