

## Enrollment fee:

### Register early and save!

- ☞ On or before October 29, 2009: \$315.00
- ☞ After October 29: \$350.00

### Register two or more people and save!

- ☞ On or before October 29, 2009: \$280.00 each
- ☞ After October 29 : \$315.00 each

Space is limited! Register today!

## Registration form:

Number of attendees: \_\_\_\_\_

Total: \_\_\_\_\_

- Check enclosed  
 Paying with credit card information below

Name/s: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City, St. Zip: \_\_\_\_\_

Phone #: \_\_\_\_\_

Email: \_\_\_\_\_

Credit card #: \_\_\_\_\_

Expiration date: \_\_\_\_\_

Verification code: \_\_\_\_\_

Return registration form with payment to:

CNC Concepts, Inc.  
44 Little Cahill road  
Cary, IL 60013

Payment is due on or prior to first day of seminar.

Attendees may register and pay on-site with company check or credit card. But do call (847-639-8847) at least a day in advance to let us know you are coming.

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## Reserve your spot.

Space is limited so phone, fax, or mail in your reservation today!

**Phone in** your registration to: 847-639-8847

**Fax in** your registration to: 847-639-8857

**Mail in** your registration to:

CNC Concepts, Inc.  
44 Little Cahill Road  
Cary IL 60013

**Still have questions?** Call 847-639-8847 or email [lynch@cnci.com](mailto:lynch@cnci.com).



*Helping CNC users improve productivity  
for over twenty years*

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*A two-day seminar:*

## Fundamentals of CNC

**Presented by Mike Lynch  
of CNC Concepts, Inc.**

Learn the basics for the two most  
popular metal-cutting CNC  
machines!

**When: November 9-10, 2009**

**Where: Sandvik Coromant  
Productivity Center in  
Schaumburg, IL**

**Call 847-639-8847 and register now!**

## Who should attend?

- ☞ CNC programmers
- ☞ CNC setup people
- ☞ CNC supervisors and managers
- ☞ Manufacturing engineers
- ☞ Trainers
- ☞ Quality control people
- ☞ Anyone interested in improving the productivity of your CNC machines!

## Seminar highlights

*This two-day session presents the basics of both machining centers and turning centers using our proven key-concepts approach*

### The ten key concepts

**Key Concept 1:** Know your machine, programmer's viewpoint

- Machine configurations
- General flow of the CNC process
- Visualizing the execution of a CNC program
- Program zero
- Determining program zero assignment values

**Key Concept 2:** Prepare to write programs

- Preparation steps for programming

**Key Concept 3:** Understand the motion types

- Programming the three most basic motion types

**Key Concept 4:** Know the compensation types

- Introduction to compensation
- Tool length compensation
- Cutter radius compensation
- Fixture offsets
- Geometry offsets for turning centers
- Wear offsets for turning centers

**Key Concept 5:** Provide structure to programs

- Four types of program format

**Key Concept 6:** Special programming features

**Key Concept 7:** Know your machine. operator's viewpoint

**Key Concept 8:** The three modes of operation

**Key Concept 9:** The importance of procedures

**Key Concept 10:** Safely verifying programs

This seminar includes a comprehensive 356 page manual that provides you with a permanent reference for what you've learned. Additionally, we offer free phone/email assistance even after you complete the course.

A complete **outline** for this seminar is provided on-line at [www.cncci.com/seminarb.pdf](http://www.cncci.com/seminarb.pdf).

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## Agenda

### Monday, November 9, 2009

7:00 – 8:00AM

Check in and registration

8:00 – 12:00AM

Morning session

12:00 – 12:45

Lunch

12:45 – 4:00PM

Afternoon session

### Tuesday, November 10, 2009

8:00 – 12:00AM

Morning session

12:00 – 12:45

Lunch

12:45 – 4:00PM

Afternoon session

*Morning refreshments and lunch provided.*

**Bonus Presentations From  
Sandvik Coromant:**

## Machining Economics

...and Modular Tooling demonstration

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## Location



### Seminar location:

Sandvik Coromant  
Productivity Center  
1665 N. Penny Lane  
Schaumburg, IL 60173

**Monday, Tuesday, Nov. 9-10, '09**

## Your instructor:



**Mike Lynch** is president of CNC Concepts Inc., a supplier of training materials to CNC-using companies and technical schools.

Considered an expert in the field of computer numerical control, Mr. Lynch has spoken extensively about CNC for organizations such as the Precision Machined Parts association, the National Tooling and Manufacturing Association, and the Society of Manufacturing Engineers.

Mr. Lynch has also written extensively about CNC, having authored five CNC text books published by McGraw Hill and the Society of Manufacturing Engineers. His column, CNC Tech Talk appears monthly in Modern Machine Shop Magazine.