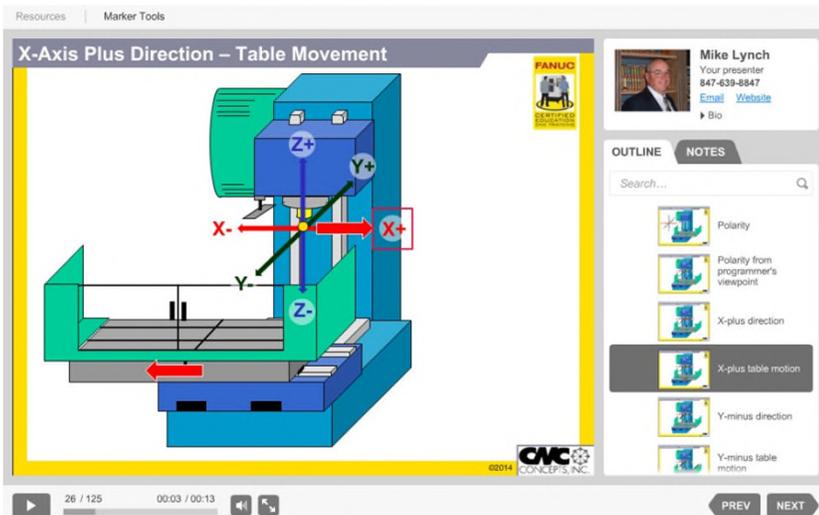


Curriculum for Academia

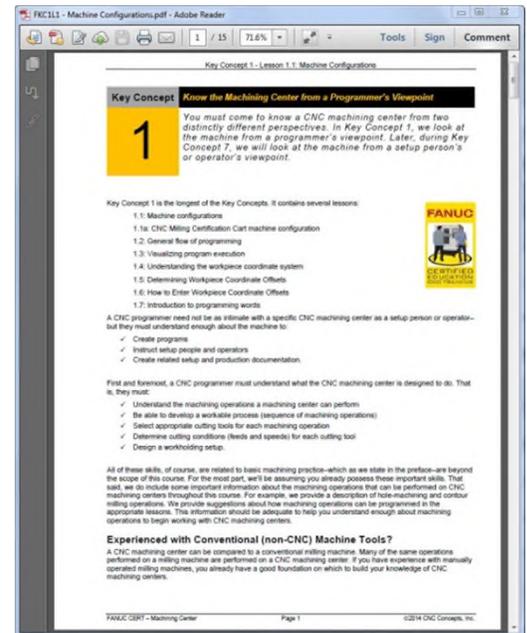
- Two Comprehensive Curriculums
 - Machining Center Programming, Setup, & Operation (24 lessons)
 - Turning Center Programming, Setup, & Operation (28 lessons)
- Two Delivery Options (same content for both)
 - On-Line and Off-Line (with manuals and workbooks)
- Proven Key Concepts Approach

Learning Materials: Every lesson contains a presentation and reading materials. The first 13 lessons contain NCGuide lab exercises.

- On-line: Downloaded from lesson activities
- Off-line: Included in a presentations CD and textbook



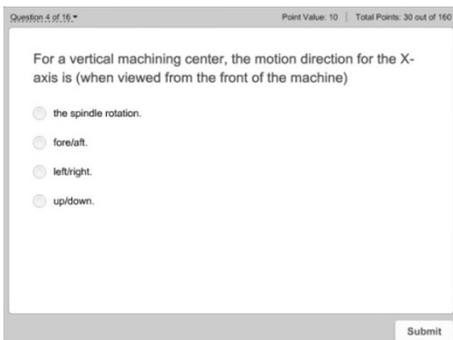
Presentations are viewable from all electronic devices, and can be saved if using an iPad



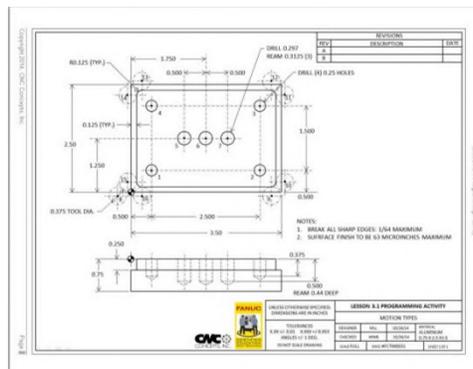
View, print, & save reading materials

Evaluation Methods: Every lesson contains a test. Some programming-related lessons contain a coordinate sheet exercise. Others contain a programming activity.

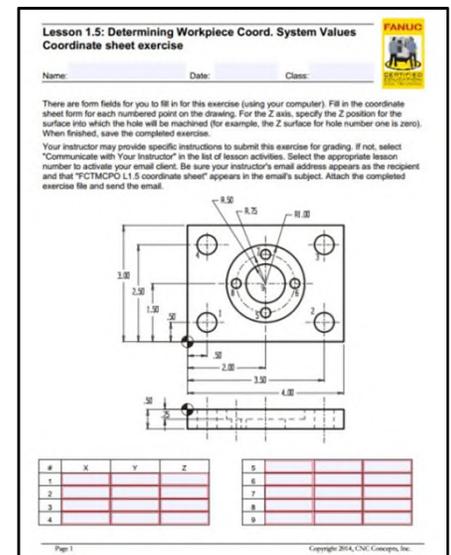
- On-line: Downloaded from lesson activities
- Off-line: Included in a workbook



On-line tests automatically graded

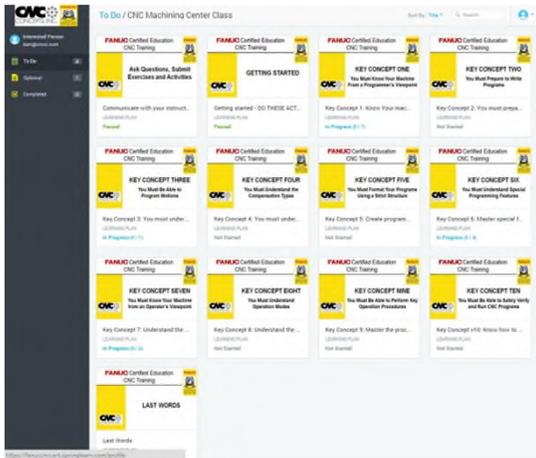


Programming activity

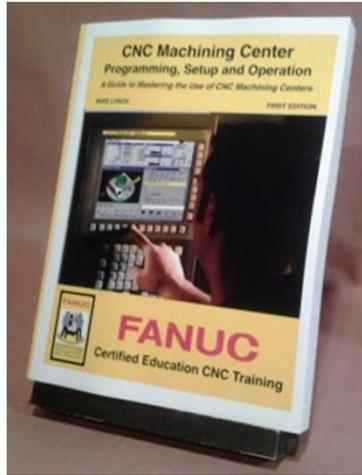


Coordinate sheet exercise

On-Line Learning Platform:



Off-Line: Textbook, Workbook, Presentations CD:



Comprehensive, yet tutorial:

Key Concepts and Lessons

Machining Center Programming, Setup, and Operation

1: Know your machine - programmer's viewpoint

- 1: Machine configurations
 - 1a: Certification cart
 - 2: CNC job work flow
- 3: Visualizing the execution of a program
- 4: Understanding the workpiece coordinate system
- 5: Determining workpiece coordinate system offset values
- 6: Setting workpiece coordinate system offsets
- 7: Introduction to programming words

2: You must prepare to write programs

- 1: Preparation steps for programming

3: Understand the motion types

- 1: Motion commands

4: Know the compensation types

- 1: Introduction to compensation
- 2: Tool length compensation
- 3: Cutter radius compensation
- 4: Workpiece coordinate system offsets

5: You must provide structure to your CNC programs

- 1: Introduction to program formatting
- 2: Structured program format

6: Special features that help with programming

- 1: Hole-machining canned cycles
- 2: Working with subprograms
- 3: Other special programming features
- 4: Programming rotary devices

7: Know your machine - operator's viewpoint

- 1: Tasks related to setup and running production
- 2: Buttons and switches on the operation panels

8: Know the three basic modes of operation

- 1: The three modes of operation

9: Understand the importance of procedures

- 1: The key operation procedures

10: You must know how to safely verify programs

- 1: Program verification

Students will spend about 30 hours working through each curriculum.

For instructors

- On-going access to on-line content
- Ability to monitor student progress
- Instructions for teaching/facilitating (manual)
- Lesson plans (manual)
- Excel gradebook included to record grades
- Easy access to NCGuide tutorials
- Templates provided for easy grading
 - Test results/recording response
 - Coordinate sheet exercises with answers
 - Programming activities with answers

Questions about curriculum?

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