Affordable computer based training! **Only $239.00!**

Setup Reduction
For CNC Machining & Turning Centers

3 hours, 47 minutes of presentation!

Get the most from your CNCs!

During any CNC machine's usage, there are really only two activities. Either machines are in setup or they are running production. Setup time is the total time the machine is down between production runs. Cycle time is the time it takes to complete a production run divided by the number of good workpieces produced.

When machines are in setup, they are not producing. Anything you can do to reduce setup time will improve the productivity of your CNC machines. In this 3 hour, 47 minute course, we'll expose many techniques to help you reduce setup time and cost for the two most popular types of CNC machine tools.

We begin by presenting preliminary information, including basic premises that will help you understand how to improve machine utilization. Included are presentations on justification issues and resources you have available to reduce setup time.

We then present principles of setup reduction; principles that can be applied to any form of production equipment. We show two task types related to setup, three general ways to reduce setup time, and four steps to implementing setup reduction.

Finally, we show countless specific techniques you can apply to reduce setup time in the approximate order that setups are made – from preparation to make setups through first workpiece inspection! In each presentation, we include printable handouts (63 handouts totaling over 120 pages) to reinforce your understanding of presented techniques. A 135 page companion manual is also included.

Great interactivity!

Nothing matches the interactivity of a computer-based training. Click on a major topic to see a list of sub-topics. Click on a sub-topic and view the presentation related to that topic. Click on a handout title to bring up the handout for viewing or printing. View all presentations and read all handouts related to a major topic. And then, on to the next major topic.

Includes quick index of major techniques

Do you want to quickly review? Seventy of the most important techniques are included in our quick index. You can view just those you have the most interest in.
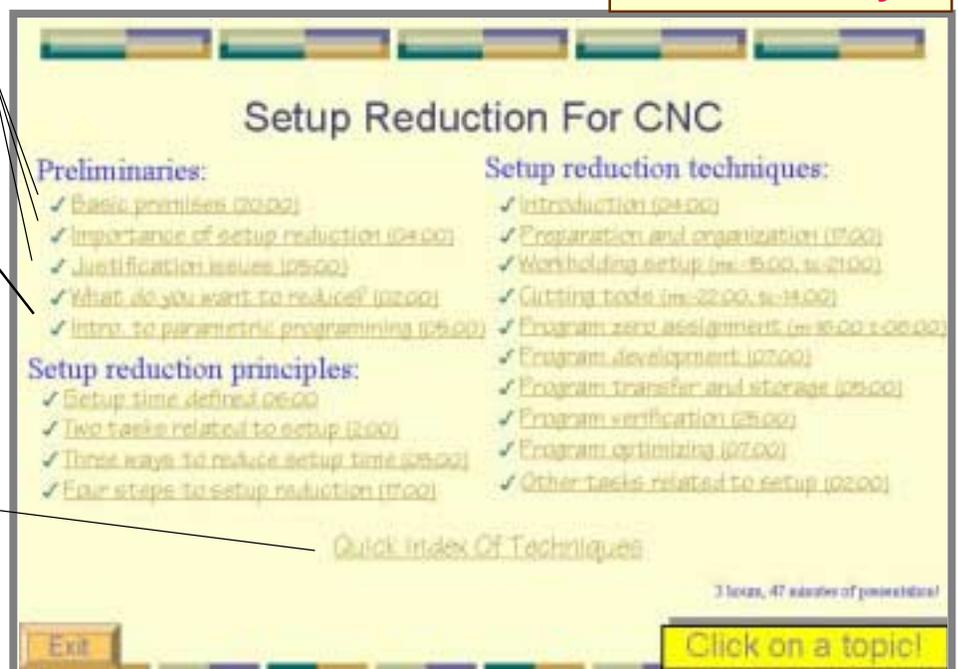
Microsoft PowerPoint Viewer

All presentations include narrations & colorful animated graphics (prepared in Microsoft PowerPoint). Microsoft PowerPoint Viewer is included to show presentations.

System requirements: You'll need a multimedia computer with Windows 95 (or above), 64 MB ram (minimum) and 6 MB free hard drive space.

Price: $239.00 includes **3 hours, 47 minutes** of presentation, **135 page companion manual**, & 63 **printable handouts** (over 120 pages) in Adobe Acrobat format. Adobe Acrobat Reader is included on the CD.
Courseware only: $189.00

Order Today!

Opening page:

Navigation is as easy as following hypertext links – just like surfing the Internet. Each major topic includes an approximate presentation time.

We provide **comprehensive topic coverage** to ensure that no stone is left unturned about setup reduction. Principles of setup reduction, as well as specific CNC techniques are covered.

The **index of techniques** allows you to view information about just your topic of choice. **Printable handouts** (totaling over 120 pages) are provided in every major topic. These handouts, combined with the presentations will provide you with a world of setup reduction ideas!

Setup Reduction For CNC

Preliminaries:
✓ Basic premises (02:00)
✓ Importance of setup reduction (04:00)
✓ Justification issues (05:00)
✓ What do you want to reduce? (02:00)
✓ Intro. to parametric programming (06:00)

Setup reduction principles:
✓ Setup time defined (06:00)
✓ Two tasks related to setup (12:00)
✓ Three ways to reduce setup time (05:00)
✓ Four steps to setup reduction (17:00)

Setup reduction techniques:
✓ Introduction (04:00)
✓ Preparation and organization (17:00)
✓ Workholding setup (m: 15:00, t: 21:00)
✓ Cutting tools (m: 22:00, t: 14:00)
✓ Program zero assignment (m: 16:00, t: 08:00)
✓ Program development (07:00)
✓ Program transfer and storage (05:00)
✓ Program verification (25:00)
✓ Program optimizing (07:00)
✓ Other tasks related to setup (02:00)

Quick Index Of Techniques

3 hours, 47 minutes of presentation!

Exit   Click on a topic!

Order today! Contact us at:

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