INTERNET KNOWLEDGE BASE
– CNC ON-LINE TRAINING
A Web-based Knowledge Distribution System
for Programmed Machines

CNC stands for Computer Numerical Control. It's an advanced machining technology that requires the operators to master many programming skill in order to control the machine's movement. Programming becomes a crucial part of CNC training.

By getting online and entering the training website, students can easily access the CNC programming information and acquire training as if they are learning in a real workshop.

On-line Knowledge Distribution
The Internet Knowledge Base is the result of pursuit of network solution of transforming and distribution of practical knowledge over the Internet. Hyperlinks and multimedia are tools of instruction embedded in the content.

On-line emulator
Built-in emulator verifies tool path of user’s part programme. One can input CNC codes as with real machines. Graphical Preview is implemented by Flash Script.

Interactive Interface
Simulated On-line Man-machine Interface responses to users in real time. Programme lines are displayed as with real machines.

Quick Reference
On-line tutorials and references help users throughout training sessions.

Further Information
http://ciu.ic.polyu.edu.hk/ikb/introduction.htm

Characteristics
• Knowledge Distribution System
• Designed for Programmed Machines
• Unlimited Access
• Interactive and Self-paced

Features
• Enhanced Navigation
• Structured Knowledge
• Multimedia Learning Resources
• Interactive Man-machine Interface
• Tool Path Simulations

Industrial Centre
The Hong Kong Polytechnic University
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On-Line Learning
Internet Knowledge Base works as a useful knowledge distribution system. It contains a sophisticated on-line emulator that can simulate the programming interface of the Numerical Control Machine. The simulation is done in a way that is so interactive and realistic that people feel like programming a real machine.

Set An Example
The Internet Knowledge Base sets an example of how Internet technology can be applied to practical on-line training. Advanced programmed machines worth hundreds of thousand dollars can be modeled for training without sacrificing manufacturing time.