

CNC Milling Technology with BenchMill 6000

The CNC Milling Technology course introduces students to the fundamentals of CNC (Computer Numerical Control) milling. Students learn the fundamentals of CNC milling by working with the BenchMill 6000 to accurately machine a series of complex parts. Activities challenge students to develop and edit programs, and machine assorted parts.

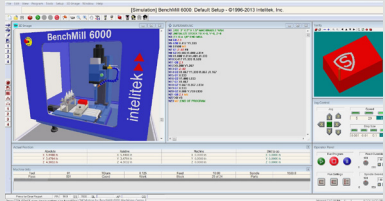
Course Information

Type	Virtual; Lab
Units of measurement	Imperial; Metric
Languages	English
Hours of instruction	15

Course Outline

- Introduction and Safety
- CNC Control Software
- Mounting the Workpiece
- Tooling
- Reference Positions
- Verifying a Program
- Running a Program
- Fundamentals of NC Programming
- Programming the House
- Machining Project #1
- Arc Programming
- Programming the Star - Project #2
- Machining Project #2
- Programming Your Initials - Project #3
- Final Project

Our e-learning curriculum combines interactive simulation with world-class hardware. Lab courses feature interactive on-line curriculum and robust hardware for the ultimate hybrid learning experience! Curriculum is fully integrated with our lab equipment, including the ability to launch software directly from the content.




LearnMate Bundles, Lab

BenchMill 6000, 110V BenchMill 6000, 220V	CNC-6000-CLBA CNC-6000-CLBA-2
CNC control software	33-2040-5001
LearnMate Content	17-8140-0001
Project, Planetary Gear Box, SA	10-7023-9000
Project, 4 Cavity Mold	17-7022-0001
Handwheel, manual control	011111
Machinable Wax Milling Stock, Small Blocks 50 pieces (3" x 2" x 1.5") (7.6cm x 5cm x 3.8cm)	10-9120-0000
Name Badge Stock, 50 pieces (3" x 1.5" x 1/8") (7.6cm x 3.8cm x 0.31cm)	10-9160-0000
Sign, CNC Milling Technology	31-1000-0203
Install Guide, BenchMill 6000, CNC Milling LM Lab	34-0000-6000
Safety Glasses, clear	39-0000-0029

110V/Imperial bundle also includes the following:

CNC BenchMill 6000, 110V	005505-110
4 tool ISO 20 tool holder package	011117
Machinist Kit	10-5810-0000

220V/Metric bundle also includes the following:

CNC BenchMill 6000, 220V	005505-220
Clamping kit, 58 piece set	011115
Precision Vise 100mm	011116
ISO 20 tool holder	011119
Storage Rack for ISO 20 tool holders, 8 storage	011121
ER16 Collet set, 8 pieces (3, 4, 5, 6, 7, 8, 9 & 10mm)	011122
End Mill, Package 5121 (2X3, 6, 8, 10 End, 4, 6 Ball)	011134

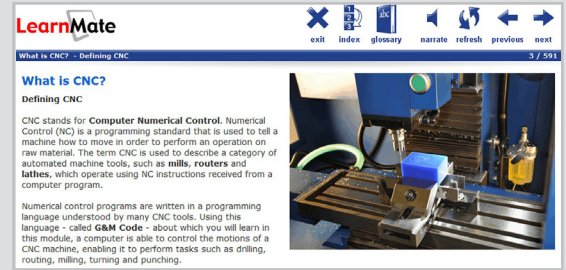
LearnMate Bundles, Virtual

LearnMate Content	17-3140-0001
Sign, CNC Milling Technology	31-1000-0203

CNC Milling Technology with BenchMill 6000 (continued)

CNC Milling with BenchMill 6000 includes LearnMate®, Intelitek's innovative e-learning platform. Self-paced interactive LearnMate content may be deployed stand-alone or through the robust learning management system (LMS). The LearnMate e-learning suite provides everything needed for the ultimate blended learning experience:

- SCORM-compliant interactive content
- Anytime, anywhere accessibility
- Student and class management
- Grade tracking
- Skill/competency reporting mapped to national academic skill standards



Ordering Information

Bundles

Lab bundle Includes: Hardware, Software, Curriculum and Projects

110V	CNC-6000-CLBA
220V	CNC-6000-CLBA-2

Virtual bundle Includes: Software and Curriculum

Imperial	CNC-6000-LMOO
Metric	CNC-6000-LMOO-2

Hardware

CNC BenchMill 6000

110V	005505-110
220V	005505-220

Software

CNCMotion® simulation software	63-6001-1000
Fanuc™ 21i Emulator	63-6001-2000
SpectraCAM Milling	10-6721-0000
SpectraCAM Milling & Turning	10-6701-0000

Curriculum

CNC Milling with BenchMill 6000, LearnMate course, Lab	
Imperial	17-8140-0001
Metric	17-8140-0002
CNC Milling with BenchMill 6000, LearnMate course, Virtual	
Imperial	17-3140-0001
Metric	17-3140-0002
CAD for Pro Engineer	17-3098-0001
CAD with spectraCAD Engraving	
Imperial	17-3004-0001
Metric	17-3004-0002
CAM	
Imperial	17-3005-0001
Metric	17-3005-0002

Projects

C02 Car		
Project kit: C02 Car 50 students		10-7016-1000
Consumables, replacement package, 50 students		10-9301-0000
4-Cavity Mold		17-7022-0001
Planetary Gearbox		10-7023-9000
Precision Measuring Device		
Project kit: Precision Measuring Device		10-7006-1000
Consumables, replacement package, 50 students		10-9304-0000
Golf Putter		
Project kit: Golf Putter materials for 50 students		10-7007-1000
Consumables, replacement package, 50 students		10-9302-0000
Sterling Engine		
Project kit: Sterling Engine, raw materials		10-9603-0000
Project kit: Sterling Engine, machined parts		10-9603-0001
Project kit: Sterling Engine, assembled		10-9603-0002
Brass Cannon		
Project kit: Brass Cannon, raw materials		10-9307-0000
Project kit: Brass Cannon, assembled		10-9307-0001



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