CNC Turning Technology with ProTurn 9000

The CNC turning technology course introduces the student to the use of CNC lathes through use of a ProTurn 9000 Turning Center. While lathe operation may vary from lathe to lathe, the concepts used to operate a CNC lathe are the same for all lathes. Working with the ProTurn 9000 will provide you with an excellent insight into CNC turning.

Course Outline
- Introduction and Safety
- CNC Control Software
- Securing the Workpiece
- Tooling
- Reference Positions
- Verifying a Program
- Running a Program
- Fundamentals of NC Programming
- Programming a Taper
- Machining Project #1
- Arc Programming
- Programming Project #2
- Machining Project #2
- Project #3
- Final Project

Course Information

<table>
<thead>
<tr>
<th>Type</th>
<th>Virtual; Lab</th>
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<tbody>
<tr>
<td>Units of measurement</td>
<td>Imperial; Metric</td>
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<tr>
<td>Languages</td>
<td>English</td>
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<tr>
<td>Hours of instruction</td>
<td>15</td>
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</tbody>
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CNC Turning with ProTurn 9000 may be deployed through LearnMate®, Intelitek’s learning management system (LMS). LearnMate, fully hosted in the cloud, provides an easy-to-implement and easy-to-use LMS for education organizations of all types that provides the best technology and capabilities without the burden of IT support and maintenance. LearnMate provides everything needed for the ultimate blended learning experience:

- SCORM-compliant interactive content
- Anytime, anywhere accessibility
- Student and class management
- Flexible content leasing options for continuous updates

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.
CNC Turning with ProTurn 9000 (continued)

Ordering Information

Curriculum
CNC Turning with ProTurn 9000, LearnMate course, Lab
  Imperial  77-8143-0001
  Metric  77-8143-0002
CNC Turning with ProTurn 9000, LearnMate course, Virtual
  Imperial  77-3143-0001
  Metric  77-3143-0002

Hardware
ProTurn 9000 - 110 VAC  00-5501-0110
ProTurn 9000 - 220 VAC  00-5501-0220

Starter Bundle, 110/220 VAC, Imp/Met  CNC-9000-STRT
Includes
  - CNC ProTurn 9000
  - 10 x 10mm Cutter Tool Holder
  - TiN-coated Tip
  - Drill Chuck for Tailstock
  - Rolling Center
  - LM7 Content, Vir, CNC Turning w/ProTurn 9000

Advanced Bundle, 110/220 VAC, Imp/Met  CNC-9000-ADV
Includes all Starter Bundle items, plus:
  - 4-jaw Chuck
  - Handwheel - Manual Control
  - Coolant System
  - Computer / Monitor Stand

Accessories
Machine-Mounted CPU / Monitor Stand  10-1105-5000
Tailstock Chuck MT2 Taper 1/2” (13mm)  10-1105-7000
4-Jaw Chuck with 4.9” (125mm) Flange  10-1105-9000
Steady Rest  10-1104-4000
Follow Rest  10-1106-5000
Rolling Center, Tailstock MT2 Taper  10-1106-6000
TiN-coated Cutter with Inserts, 7 Pc Set, 10 mm  10-1110-1000
7-Piece Set, Insert Replacements  10-1110-2000
Pneumatic Shield Opener with Sensors  10-1110-6000
Pneumatic Air Chuck  10-1111-0000
Jog Pendant Handwheel  10-1111-1000
Basic Air Compressor and Conditioning System  10-4526-0000
Quiet Operation Air Compressor / Cond. System  10-4527-0000
Coolant System - 110 VAC  10-1108-1110
Coolant System - 220 VAC  10-1108-1220
Project Kit, Brass Cannon  10-9307-0000
Project Kit, Sterling Engine  10-9603-0000
Project Kit, Chess Set  10-7551-0000

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