

NCGuide Academic packages – effective learning environment

NC Guide Academic packages are authentic FANUC CNC software running on a PC, providing a realistic operation and part programming environment at a fraction of the cost of using a production machine tool. This translates into lower training costs. Comprehension and retention is enhanced as students perform repetitive hands-on exercises in an ergonomically friendly environment - away from the noise of the factory floor. Operators, programmers, and industrial maintenance students can all practice common procedures and develop optimized processes without risks to people, tooling or machines.



Operational training

NCGuide is ideal for operational training. All standard CNC operational screens can be selected and all standard procedures can be practiced. You can upload and download part programs, create and edit part programs, search for words and safe start blocks, and test for syntax and sequence of operations errors. Workpiece, tool geometry and tool wear offsets can all be edited and their effects visualized to enhance understanding.

Students can expand their knowledge by learning the features available with newer controls - even if the real control is not available. For the most realistic and effective learning environment, each user can quickly setup configuration to emulate a particular machine's CNC.

Part programming training

NCGuide supports both conventional G-code part programming with tool path simulation, and the easy-to-use, yet powerful MANUAL GUIDE *i* conversational part programming with 3D tool path and part geometry visualization. You can create and edit machining center, lathe and compound machining part programs, generate cycle time estimates, and create and test Custom Macro subroutines. You can use tool path simulation to visually verify a part program, to see the effect of workpiece and tool offsets, and to observe the effects of canned cycles and advanced interpolation modes.

MANUAL GUIDE *i* conversational part programs can be developed in NCGuide and then converted to conventional G-code to run on any FANUC CNC. Standard G-code part programs may be also executed in the MANUAL GUIDE *i* solid model simulation by adding information on the workpiece and additional information on the tooling.