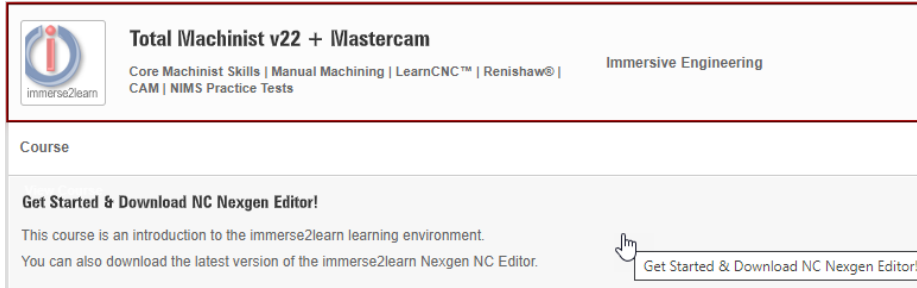


## Nexgen NC Editor

### Install i2L NC Nexgen Editor

Windows administrative privileges may be required.

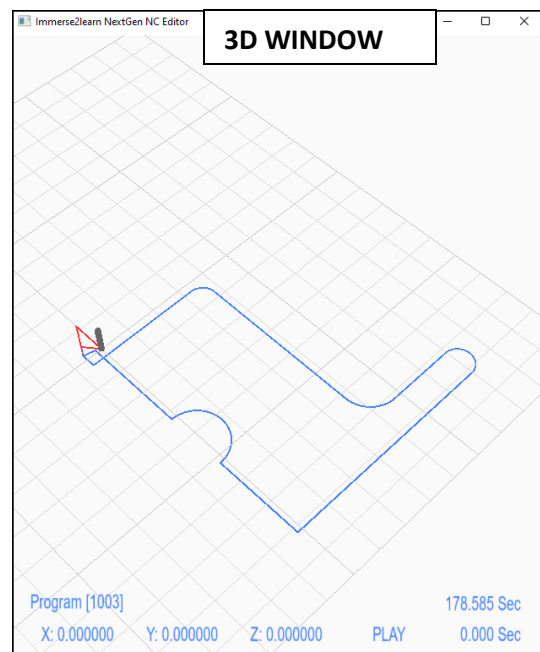
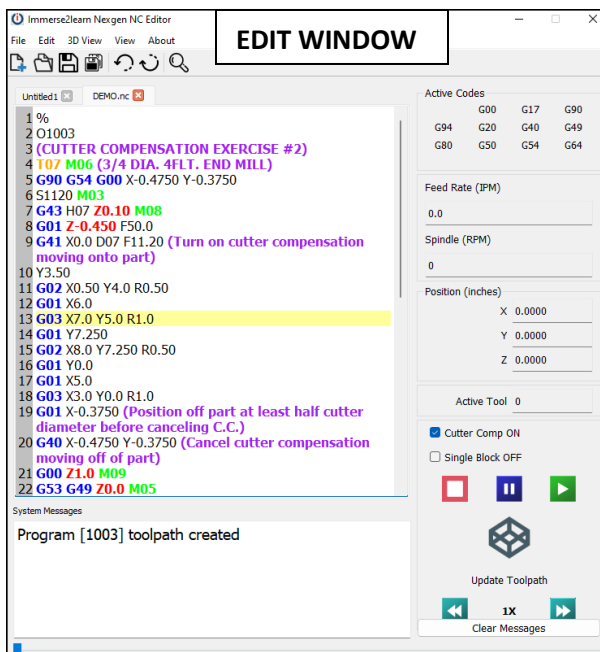
1. Login to immerse2learn, then go to the “Get Started & Download NC Nexgen Editor!” course.



2. Go to the Module Introduction page, then click the “Click here to download i2L NC Editor” link to download the application.
3. Locate the downloaded install package, then double click it to begin the install.
4. Follow the on-screen instructions.
5. Once the install is complete, click the “i2L NCEditor” desktop icon to open the application.

### i2L Nexgen NC Editor Interface

When the i2L Nexgen NC Editor application is started, an edit window and a 3D window will open.



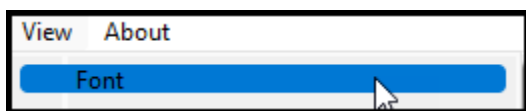
- **Edit Window** – Easy-to-use editor with Microsoft®

menus. Allows the user to input an NC program using the following methods:

- Write a new program.
- Open an existing program.
- Copy & paste a program from another application.

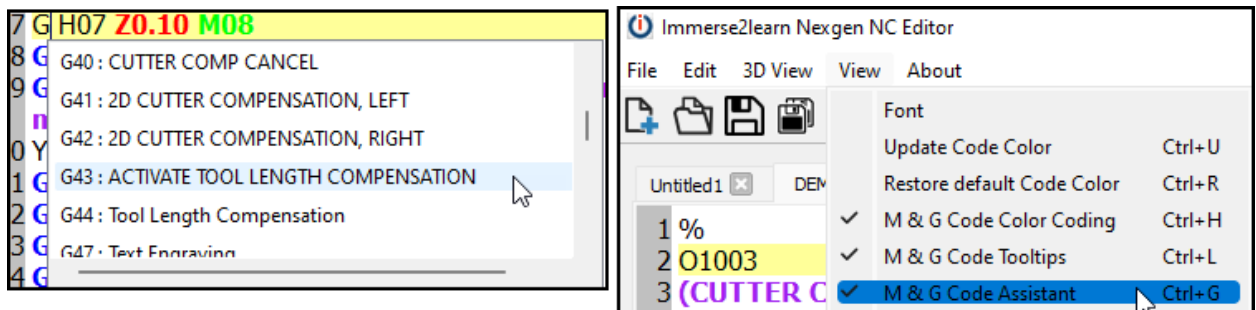
The edit window has basic editing capabilities such as undo, redo, copy, cut, paste, delete, select all, find, and more.

Go to the “View” menu and select “Font” to customize the font style and size in the edit window.

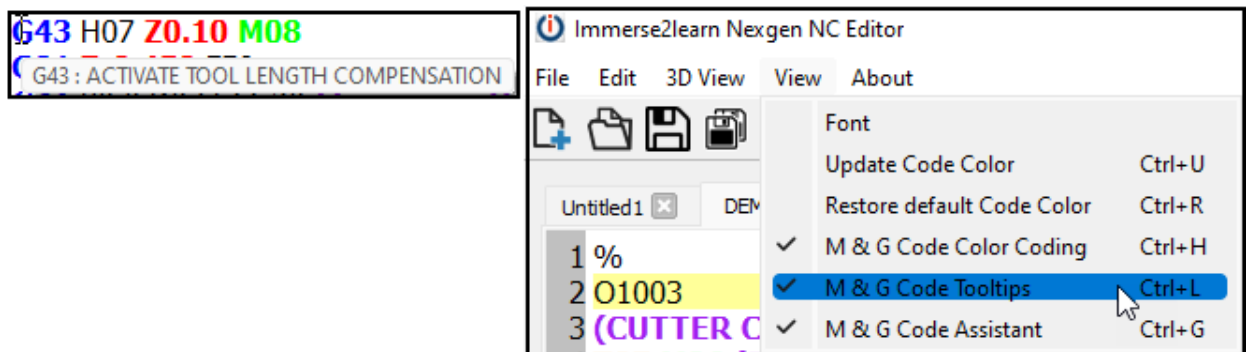


The edit window is also capable of the following advanced features:

- Code Assistant – Start typing an M or G code and a pull-down menu appears with a list of codes and a description of each code. This feature may be disabled from the “View” menu.

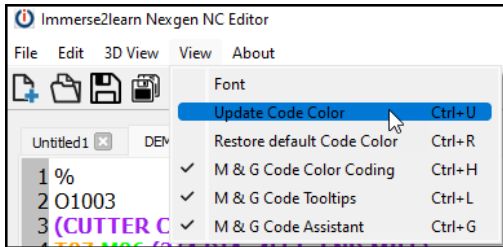


- Tooltips – Cursor over any M or G code to see a description of that code. This feature may be disabled from the “View” menu.

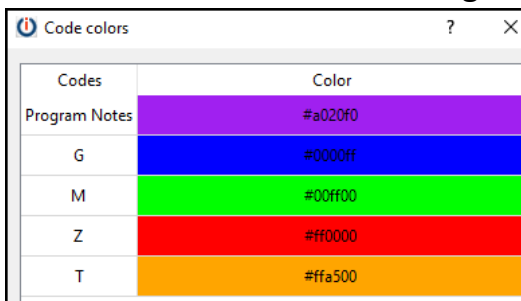


- Color Coding – Program word addresses and parameters can be assigned custom colors.

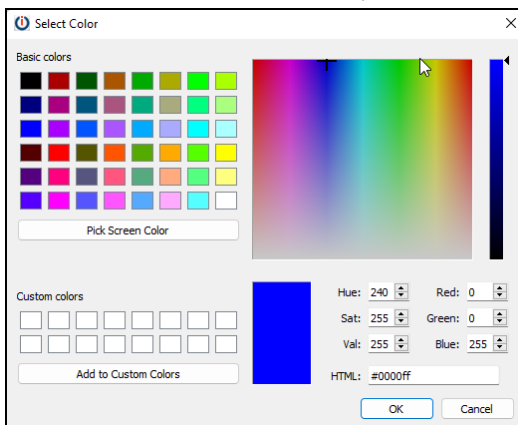
Click the “View” menu, then click “Update Code Color”.



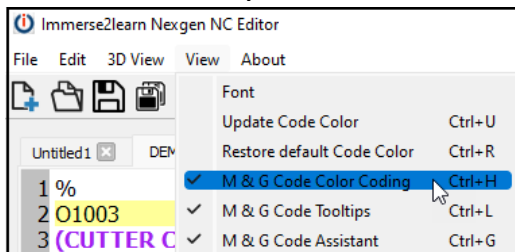
Double click the color to the right of the desired code or parameter.



Select the desired color, click the  button, then the  button.

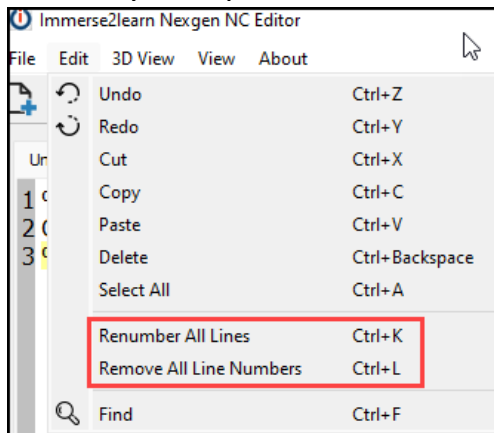


This feature may be disabled from the “View” menu.

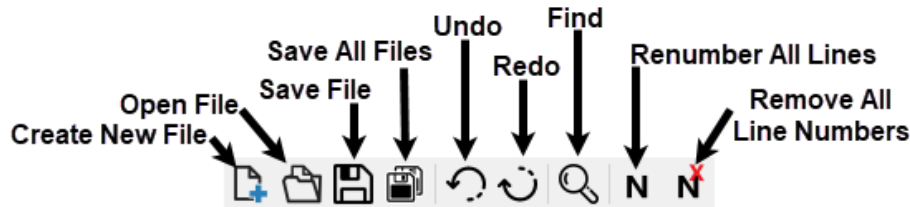


Use the “Restore default Code Color” option to reset all colors.

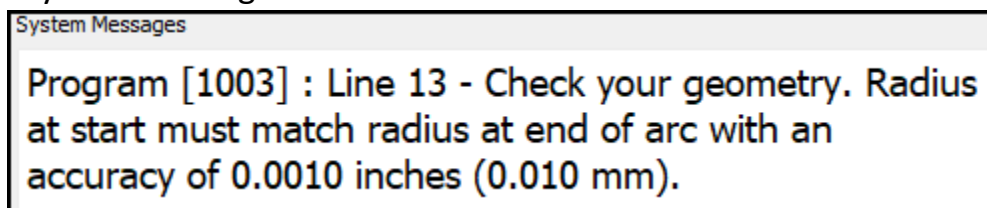
- Syntax Checking – When the user clicks the “Cycle Start” or “Update Toolpath” buttons, the edit window automatically corrects any bad syntax in the program.
- Line Numbering – Program line numbers can be added, renumbered, or removed by using the “Renumber All Lines” or “Remove All Line Numbers” options in the “Edit” menu or the designated icons in the Toolbar (see section on Toolbar). Choose your option, then follow the on-screen instructions.



- Toolbar



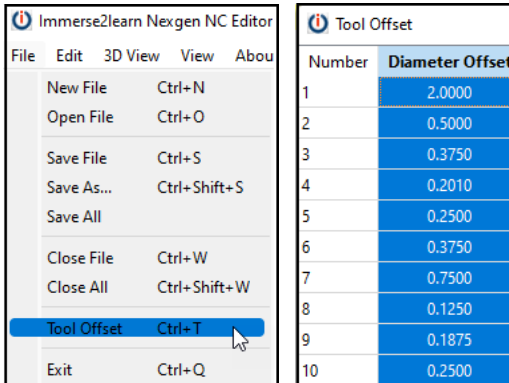
- Alarm codes and description - When the user clicks the “Cycle Start” or “Update Toolpath” buttons, the Nexgen NC Editor runs a check to find any errors in the program. If an error is found, an alarm code and description will appear in the “System Messages” window.



Correct the program, then click the “Cycle Start” or “Update Toolpath” buttons again.

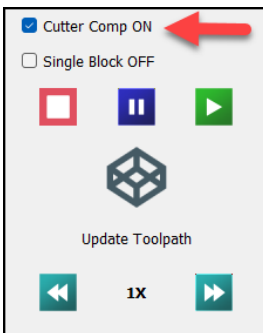
Use the  button to clear the system messages window.

- Tool Diameter Offsets (Cutter Comp) – The Nexgen NC Editor is using tool data to calculate tool positions and cutter compensation. Tool data is provided in the tool list accessible from the “File” menu.



See actual tool list for additional tools.

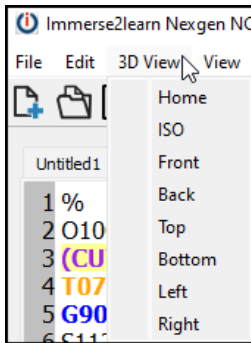
Use the “Cutter Comp” check box to enable/disable cutter compensation.



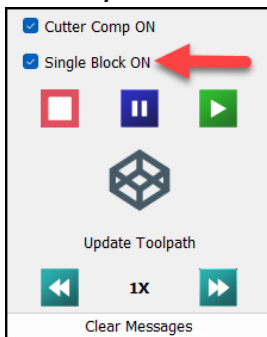
- Displayed Information – The right-side of the edit window displays the following live data: Active Codes, Feed Rate, Spindle Speed, Positions, and Active Tool.

Active Codes			
G01	G17	G90	
G94	G20	G41	G43
G80	G50	G54	G64
Feed Rate (IPM)			
11.20			
Spindle (RPM)			
1120			
Position (inches)			
X	-0.3750		
Y	0.2187		
Z	-0.4500		
Active Tool 07			

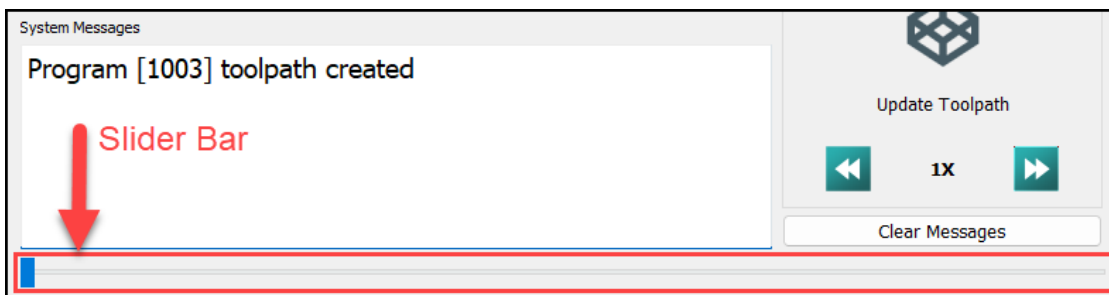
- 3D View Menu – Use the 3D View menu to position the 3D window to a desired fixed view.



- Single Block (Forward and Backward) – Click the “Single Block” check box, to turn single block on and execute the NC program one program block at a time. Press the “Cycle Start” button to execute each program block.



- Slider Bar – Use the slider bar to control tool simulation in the 3D window.



- **3D Window**

The 3D window can be navigated using the following methods.

- Hold down the left mouse button to rotate.
- Hold down the left and right mouse buttons to pan.
- Use the middle mouse wheel to zoom.

