

Virtual Lab for Intelitek Simulation Applications

STUDENT/TEACHER GUIDE

Rev. D

October 2020





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Virtual lab for Intelitek simulation applications - student/teacher guide

October 2020

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Introduction

The Intelitek Virtual Lab is a hosted service to enable students to access Intelitek applications from any platform with a browser and internet access. This service is of specific use for students with PCs with limited resources, or non-PC platforms like Chromebooks or Apple computers that cannot run software developed for PCs.

The Virtual Lab requires a license for each student to access a virtual machine that has the software installed and allows the student to use the software in parallel with the Intelitek learning materials (curriculum).

Virtual Lab supports the following Intelitek applications.

- CNCMotion®
- RoboCell®
- PneuMotion®
- HydraMotion®
- PLCMotion®
- OpenCIM®

Access to the Virtual Lab is a limited time license per student that is active for six (6) months from the first time a student logs in.

Warning

The license for access to the Virtual Lab is time limited. When completing an exercise, it is important to “Save & Exit” from the system to ensure that the time allocated to you does not get consumed when you are not using the system.

Using the Virtual Lab

When using Intelitek curriculum or performing Intelitek lab exercises, the content may request the user to “Click [here](#) to run xxxMotion” (one of the software packages listed above)

Task: Running CNCBase



1. Turn on the power switch on the control panel. The power switch will light up when on.

2. [Click here to run CNCBase.](#)

Due to variations in monitor settings, you may need to resize and reposition the CNCBase window to see the instructions. You can resize and reposition the CNCBase window at any time.

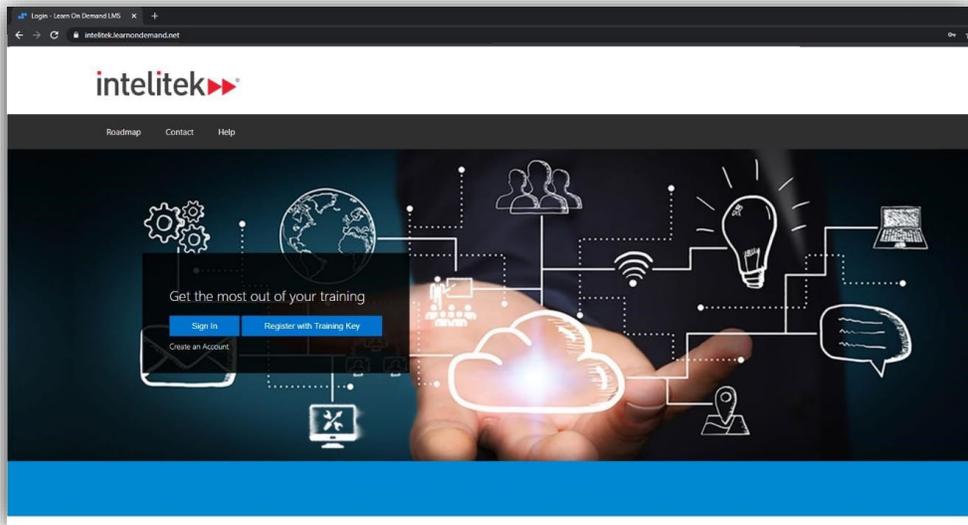
If the user has the relevant software application installed on the PC they are using, this link will activate and launch the software.

When using the Virtual Lab, **do not use this link**, but rather open the Virtual Lab at <https://virtual.intelitek.com/> and access the relevant software on a virtual machine.

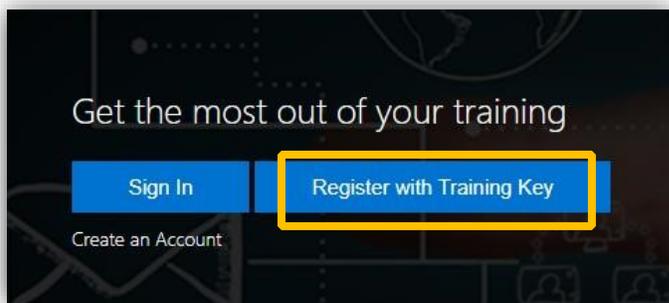
Once the software is launched in a separate Virtual Lab browser window, all activities and exercises are identical.

Virtual Lab Student Enrolment (New Student)

- 1) Go to <https://virtual.intelitek.com/>



- 2) Select "Register with Training Key"



- 3) Enter the key provided to you by your teacher or that you received in the order confirmation email.
The Training Key will be 8 Characters.

Register with Training Key

Register with a Training Key

ABCEFGH

Register

- 4) Click the Register button and continue to the Registration Form
- 5) Complete the registration form entering all required fields. Please make sure you can receive e-mails at the provided email address. Write down and save your username and password for future use.

Roadmap Contact Help

Register

First Name: Bill *

Last Name: Nye *

Primary Email: BillNye@ScienceGuy.com *

Username: bill.nye *

Password: ScienceRules! Show Characters OK

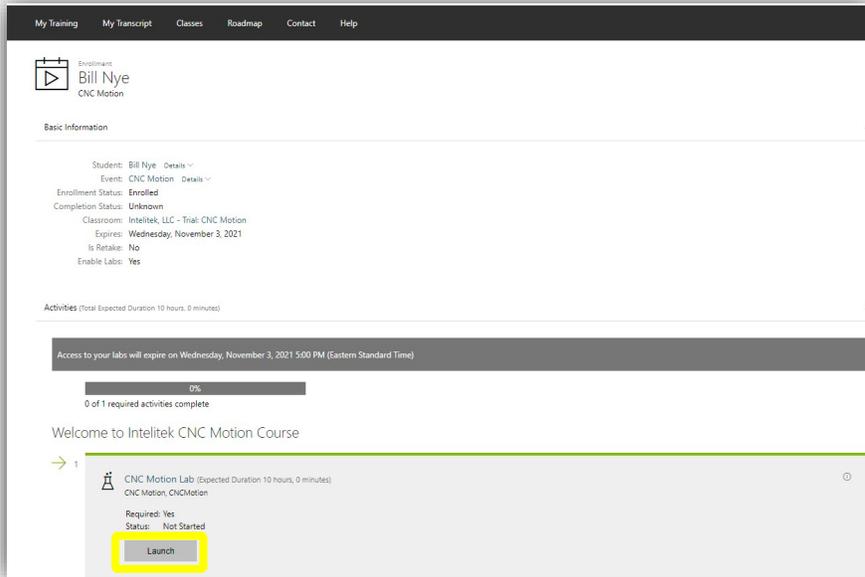
Confirm Password: ***** Password Policy

Time Zone: (UTC-05:00) Eastern Time (US & Canada)

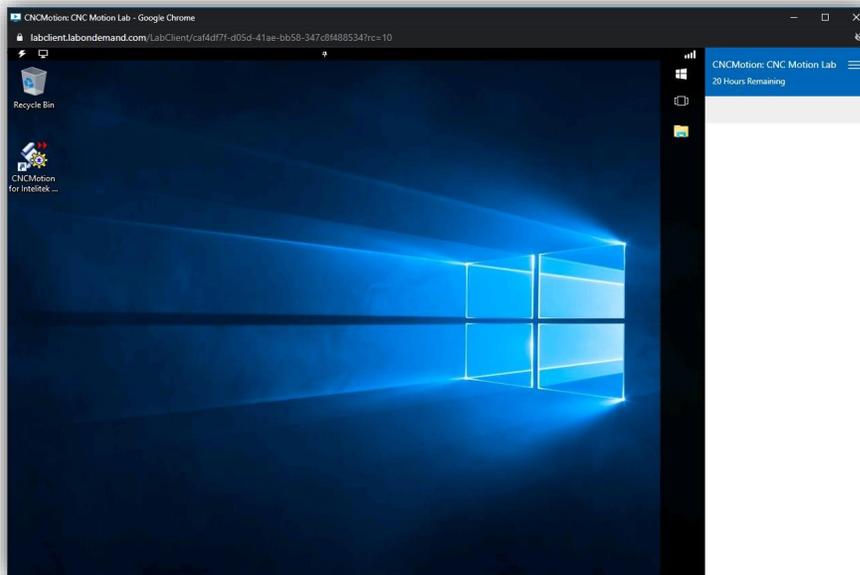
Enable Notifications

Save

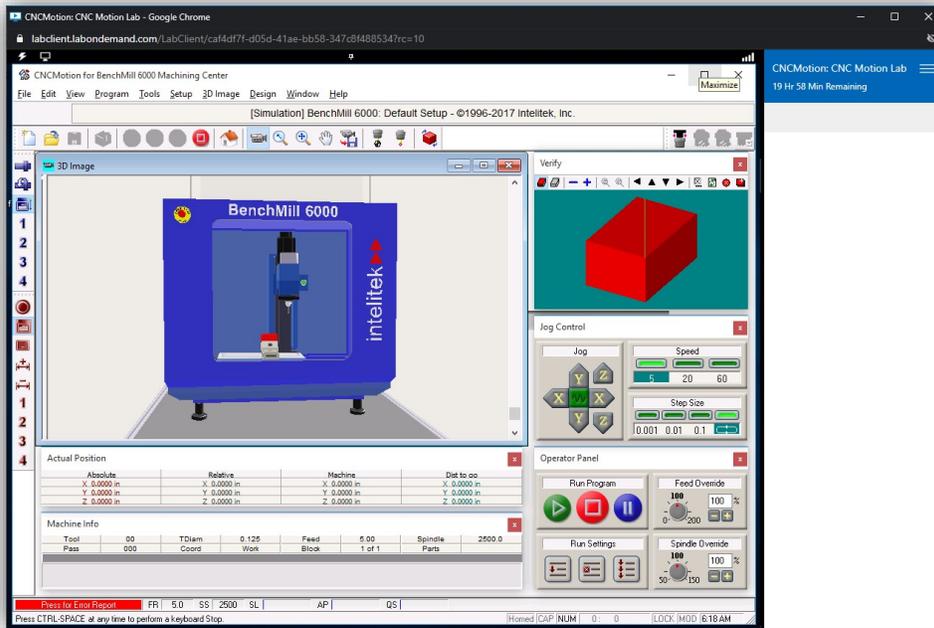
- 6) Click Save
- 7) You can now launch the Virtual Lab (virtual computer) by clicking the Launch button



8) When you click launch, the virtual computer will be built, this can take up to 60 seconds. Do not refresh the browser window.



9) To launch the application, double click the Application Icon on the desktop and you can continue with the LearnMate Curriculum/Lab Exercise.

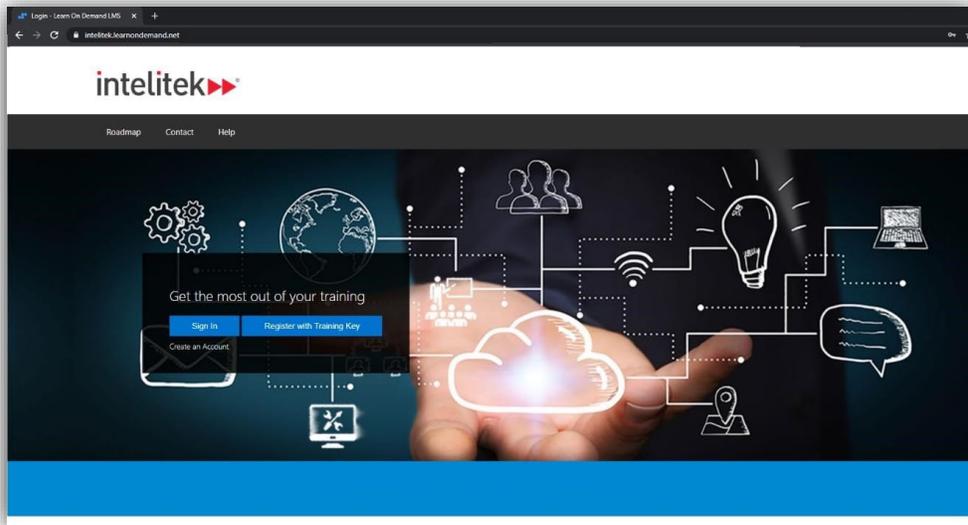


Warning

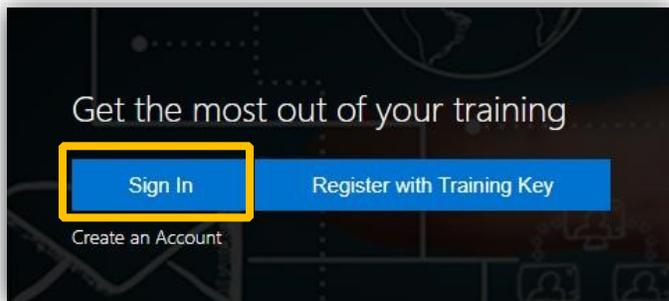
The license for access to the Virtual Lab is time limited. When completing an exercise, it is important to “Save & Exit” from the system to ensure that the time allocated to you does not get consumed when you are not using the system.

Adding Apps to the Virtual Lab (Existing Student)

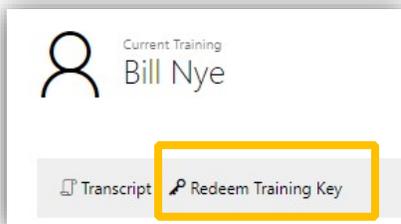
- 1) Go to <https://virtual.intelitek.com/>



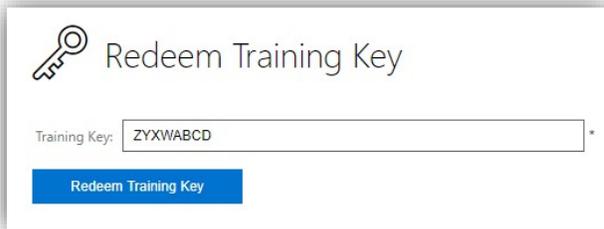
- 2) Select "Sign In" and enter your Username and Password



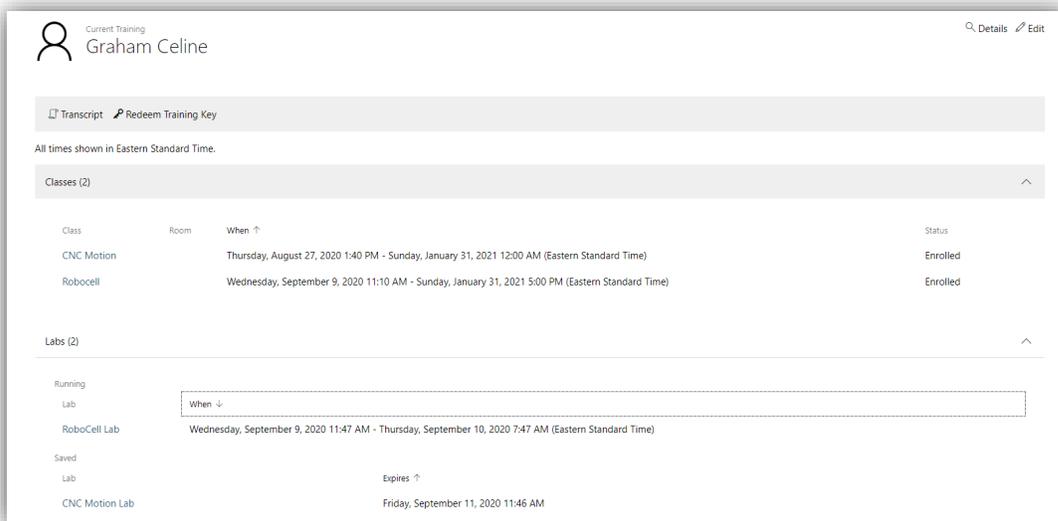
- 3) Select Redeem Training Key



- 4) Enter the Training Key you received from your teacher or in the confirmation email. The Training Key will be 8 Characters.
Then click Redeem Training Key again.



- 5) You will now be enrolled in the additional courses. When you log in to the Virtual Lab, you will see all the Applications you are registered for and can launch the appropriate application instance for the curriculum or exercise you are working on.



Class	Room	When	Status
CNC Motion		Thursday, August 27, 2020 1:40 PM - Sunday, January 31, 2021 12:00 AM (Eastern Standard Time)	Enrolled
RoboCell		Wednesday, September 9, 2020 11:10 AM - Sunday, January 31, 2021 5:00 PM (Eastern Standard Time)	Enrolled

Running	When
RoboCell Lab	Wednesday, September 9, 2020 11:47 AM - Thursday, September 10, 2020 7:47 AM (Eastern Standard Time)

Saved	Expires
CNC Motion Lab	Friday, September 11, 2020 11:46 AM

This screenshot above shows the user experience when two applications are licensed. In the classes section, the two applications are shown. Below that in the Labs section, you can see two saved sessions (one for each application). The user can return to either session by selecting and launching the Lab.

Warning

The license for access to the Virtual Lab is time limited. When completing an exercise, it is important to “Save & Exit” from the system to ensure that the time allocated to you does not get consumed when you are not using the system.

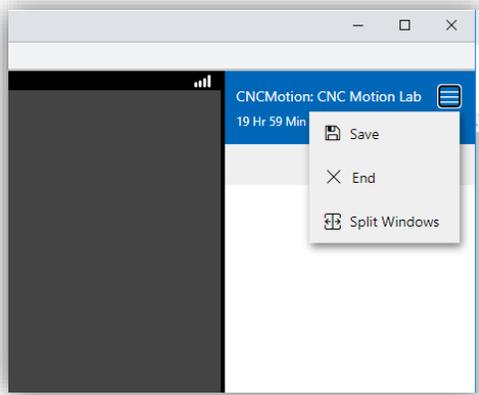
Ending your Session

When you exit a session all data from that session will be deleted and the next time you login a new virtual machine with a clean slate will be created.

You can save your data in two ways.

1) Save Session

Saving the lab before you exit creates a copy of your work and allows you to reopen that lab instance from the point at which you stopped without losing any of the work you have done. To save a lab, click the three bars on the top right of the screen and choose Save. Save your lab and close the window. In your training window, the saved lab will be listed in the Labs section and you can relaunch it.



Saved sessions are only saved for 7 days.

2) Exit

Exiting the session will close the instance and reset the Virtual Lab. When you log in again and start the Virtual Lab, the system will be started from scratch.

Make a copy of your data

It is highly recommended to copy the content of your program manually to a local file. Open the program, select the code and copy paste this into a text file on your local machine.

Warning

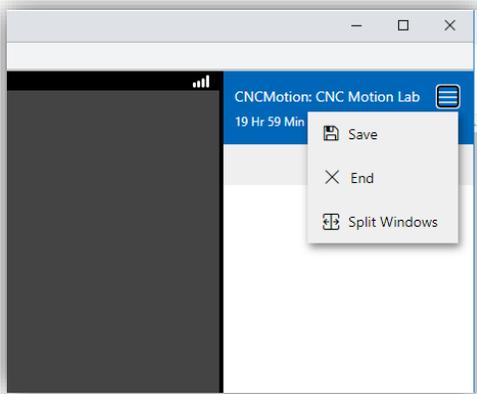
The license for access to the Virtual Lab is time limited. When completing an exercise, it is important to "Save & Exit" from the system to ensure that the time allocated to you does not get consumed when you are not using the system.

Q&A

1. *What is the difference between ending a lab and saving a lab?*

Launching a lab starts a new lab instance of the virtual machine with no user data. When you first access your lab, the system creates a new blank instance of the Intelitek application with only sample data. This is the same as if you install the application for the first time locally.

Saving the lab before you exit creates a copy of your work and allows you to reopen that lab instance from the point at which you stopped without losing any of the work you have done. To save a lab, click the three bars on the top right of the screen and choose Save. Save your lab and close the window. In your training window, the saved lab will be listed in the Labs section and you can relaunch it.



Exiting the lab will delete the current instance of the virtual lab and all work will be lost. If you exit without saving, ALL your work and work history will be deleted and when you enter the lab again, a new instance of the application with only sample data will be created.

2. *Why logout every time?*

It is best practice to save and exit your lab instance when you are not working.

The license for the Virtual Lab is time limited and leaving the virtual lab open without logging out will use your allocated time and eventually you will be locked out of the system.

Saving and Exiting allows you to resume at any time. Resuming the lab starts the saved lab instance exactly where you stopped working. To reopen the saved lab instance, click the Resume button. Saved labs can be reopened from your portal page when you log in.

3. *What are the Bandwidth Requirements?*

We require a minimum 1 mbps consistent download bandwidth with 5mbps bursts per student

Machine controller bandwidth consumption is based on the rate onscreen content changes, some scenarios (i.e. web browsing inside the lab) may require more.

For optimal experience, we recommend the following download speeds.

< 1 mbps per student – poor performance

2-4 mpbs – good performance

>5 mbps – excellent performance

You can test your bandwidth at this link <https://lods.speedtestcustom.com/>

Satellite and Cellular users may also experience trouble with poor performance due to the longer latency. Latency of < 100ms is optimal.