Aspen Mtell Certification Exam Process

Process Guide

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Prior to Exam

1. Review Process and Technologies Used

Process Overview: Aspen Online User Certification uses a two-step process to ensure that you can take exam securely and with integrity. You will be monitored through CloudShare Virtual environment, where you will take the exam. Web Ex will be used by sharing your webcam with the proctor. You will be asked to put your phone away.

Technology Used:
- WebEx for remote sharing
- CloudShare for Quiz and Lab

2. Test WebEx

Please ensure your WebEx link works and you can access video camera. It is required for you to use a webcam during the exam. For troubleshooting, review the WebEx help guide.

3. Test CloudShare

- Please test your connectivity speed. If your bandwidth is low, this is an Internet Service Provider issue. You will need a strong internet connection to ensure a good experience. To minimize issues, you can use an ethernet cord instead of WiFi and minimize the number of devices using the internet at the time of exam.
- To use Cloud Share's technology, the required *minimum* bandwidth for one RDP session is 150 Kbps
- Please use Google Chrome as the recommended browser.
- Close all browsers/tabs during the exam.
- If CloudShare crashes during exam, report to instructor.

4. Review Exam Expectations

- Leaving the room for any reason is unacceptable other than to go to the restroom. Please notify the instructor through a private chat message.
- If the proctor sees indications that you are not taking the exam seriously, you may be failed. View Aspen Certification Policy of when you can retake exam.
- Please ensure you do not use any mobile device during the exam. They will need to be silenced and put away.
- Please mute yourself as a courtesy to both the other students and the proctor. If you wish to ask questions, please use the chat feature on WebEx and address it only to the proctor.
- Please avoid any conversations during the exam.
- Help files within AspenTech software may be used for the exam within the CloudShare environment.

Day of Exam

1. Join WebEx to Connect with Proctor

a. Join WebEx session and start Webcam to show your presence. Phones should not be used during exam.
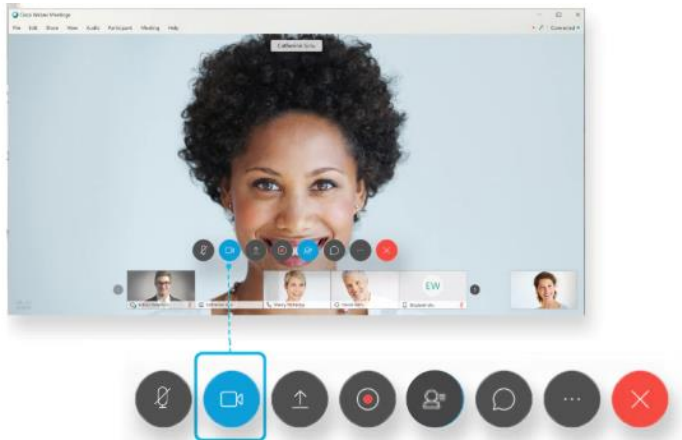
2. Connect to CloudShare to take Exam

a. Log into CloudShare, you should have received email with link and passphrase.

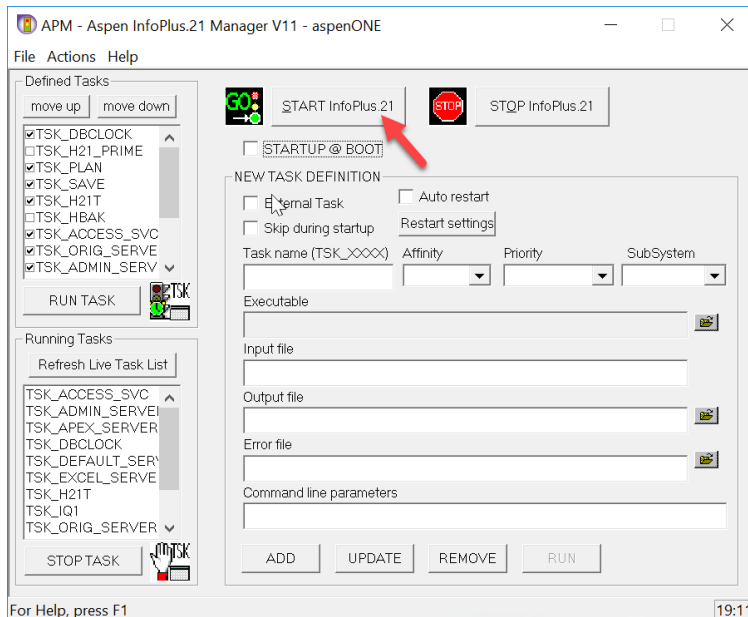b. Click on button and you will see the virtual desktop

c.   On the VM list, look out and click **Full Screen RPD**

3. Start InfoPlus.21 Database

a.   The workshop is using simulated data generated by InfoPlus.21 Database, please start the database to start simulating the data before you get start the exam.

b.   Launch **InfoPlus.21 Manager**

c.   Click **START InfoPlus.21**

4. Start Quiz
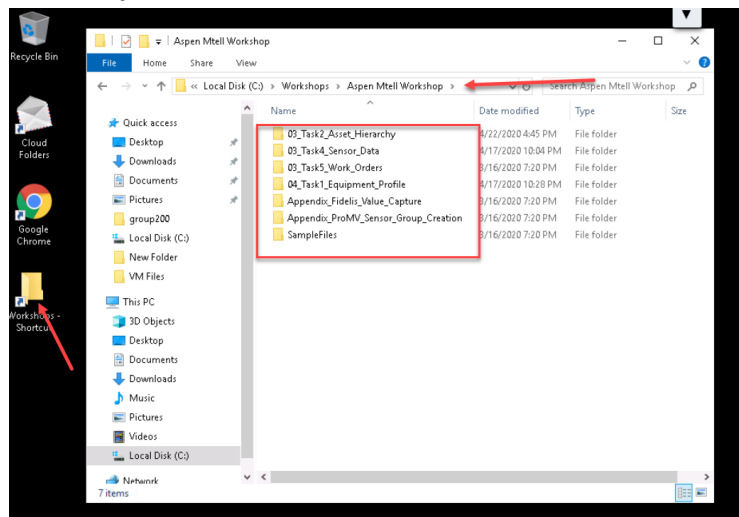
    a. Launch **Chrome**

    b. Click **Other bookmarks** and launch **Aspen Mtell Certified User Exam**
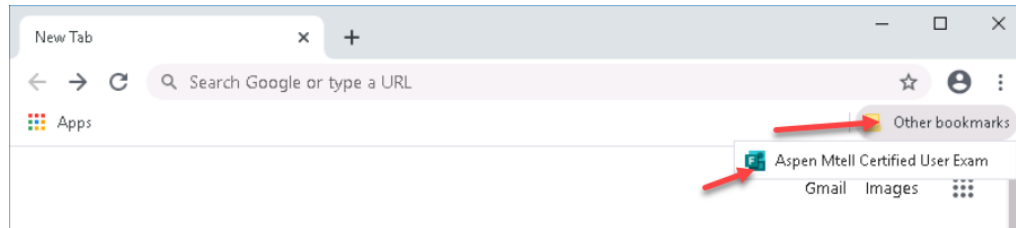
    c. Complete the multiple-choice questions

    d. Workshop files can be accessed from desktop shortcut or **C:\Workshops\AspenMtell Workshop** folder

5. Launch Aspen System Manager and create a database to complete lab

    a. Launch Aspen System Manager

    b. Click next

c. Select **Create a New Database** and click **Next**
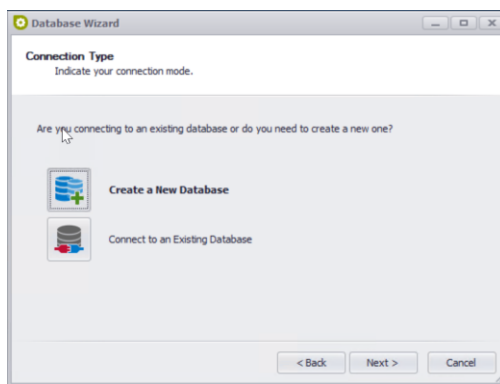
d. Select **Generate Database For Me** and Click **Next**

e. Don't make any changes, just click **Next**

f. It will run all the scripts to create the database, click **Next**

g. Click **Finish**
h. It will launch Initial Configuration Wizard, Click **Cancel**

i. You can now start with your workshop tasks.

6. Information on Process Data used in Mtell

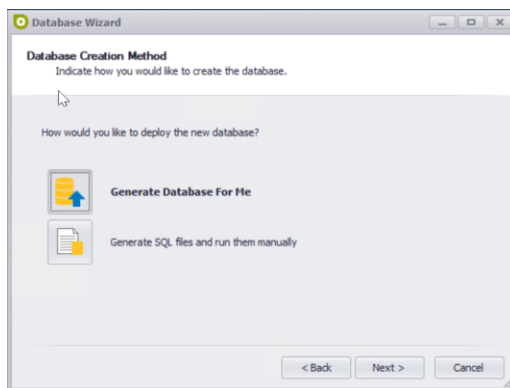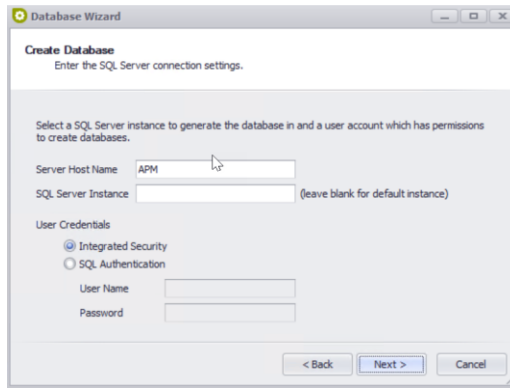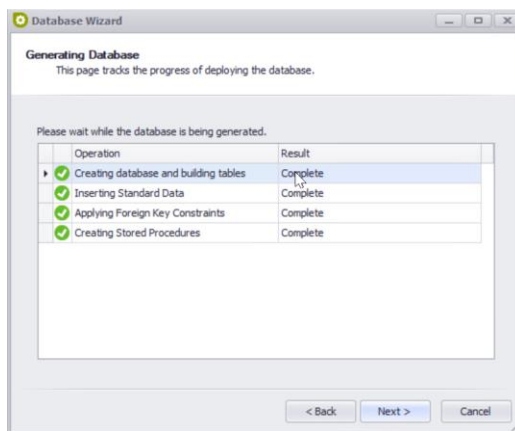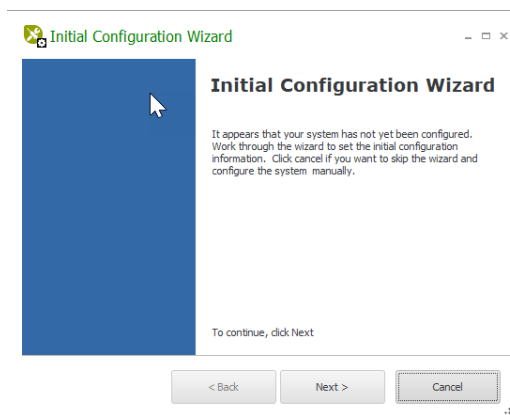a. Aspen InfoPlus.21 is simulating Process Data for most of the sensors used in the Lab. IP21 has data from Jan 1st, 2016.

b. Vibration data are populated in CSV files located in **C:\Workshops\AspenMtell Workshop\03_Task4_Sensor_Data** folder. Vibration data are from Jan 1st, 2016.

c. We have completed CSV files for all imports. Remember to use exact names from CSV files when creating Sensor Data Sources. Names are case sensitive in Mtell.

d. Data Wrangling will be required to define accurate sensor groups and sensor roles.

Frequently Asked Questions:

1. How many Asset agents needs to be created in this exam?

   Student should create agents only for 1 asset (Compressor1).

2. How many agents needs to be deployed live?

   You only need to deploy 1 best Anomaly Agent and 1 best Failure Agent in this exam. However,

   you may have to create and train many agents to find best agents in a sensor group.

3. Why TDS import is taking about 5 minutes for import?

   Student should import only 1 asset Historian data into the TDS. If they import more than 1 asset

   data, then it will take more time.

4. What time stamp format should I use when import CSV Historian data?

   Students should use below Timestamp format which is supported by Windows Operating System.

Format specifier	Description	Examples
"d"	The day of the month, from 1 through 31.	M/d/yyyy H:m:s 5/2/2020 0:0:0
"dd"	The day of the month, from 01 through 31.	M/dd/yyyy H:m:s 5/02/2020 0:0:0
"M"	The month, from 1 through 12.	M/d/yyyy H:m:s 5/2/2020 0:0:0

"MM"	The month, from 01 through 12.	MM/d/yyyy H:m:s 05/2/2020 0:0:0
"MMM"	The abbreviated name of the month.	MMM/d/yyyy H:m:s MAY/2/2020 0:0:0
"yy"	The year, from 00 to 99.	M/d/yy H:m:s 5/2/20 0:0:0
"yyyy"	The year as a four-digit number.	M/d/yyyy H:m:s 5/2/2020 0:0:0
"h"	The hour, using a 12-hour clock from 1 to 12.	M/d/yyyy h:m:s AM 5/2/2020 1:0:0 AM
"hh"	The hour, using a 12-hour clock from 01 to 12.	M/d/yyyy hh:m:s AM 5/2/2020 01:0:0 AM
"H"	The hour, using a 24-hour clock from 0 to 23.	M/d/yyyy H:m:s 5/2/2020 1:0:0
"HH"	The hour, using a 24-hour clock from 00 to 23.	M/d/yyyy H:m:s 5/2/2020 01:0:0
"m"	The minute, from 0 through 59.	M/d/yyyy H:m:s 5/2/2020 0:1:0
"mm"	The minute, from 00 through 59.	M/d/yyyy H:mm:s 5/2/2020 0:01:0
"s"	The second, from 0 through 59.	M/d/yyyy H:m:s 5/2/2020 0:0:1
"ss"	The second, from 00 through 59.	M/d/yyyy H:m:ss 5/2/2020 0:0:01
":"	The time separator.	M/d/yyyy H:m:s 5/2/2020 0:0:0
"/"	The date separator.	M/d/yyyy H:m:s 5/2/2020 0:0:0

5. I'm getting following error message when importing TDS, what should I do?

    Tag Data Source not found for tag reference: AMBIENT_PSI or any other Tag

    This error message will occur if Aspen Mtell Agent Builder is unable to find the Sensor Data Source. If you create Sensor Data Source while Agent builder was open, the changes were not recognized by Agent builder. Please close the Agent Builder and launch the Aspen Mtell Agent Builder again to resolve this issue.

6. The following error will appear when trying to open Agent Builder: (Default Exception Handler)

   Application Exception: One or more errors occurred.

   This issue will occur after Equipment set imported multiple times. Users can avoid this error by

   importing Equipment Set Profile using different Equipment set name rather than updating

   existing Equipment Set Profile. Please inform your proctor if you encounter this error message.

7. Why Train Agent option is greyed out?

   Train Agent option will be greyed out if there is missing data for some sensors. If you select the

   agent and check the sensor names in the right-hand panel, you will notice few sensors will be

   colored red. You need to perform audit sensor and update the sensor group to address this issue.

   Agent training is not allowed if there are lots of missing data.

Good Luck!