# STK Integration Certification

This training covers STK Integration in detail. Trainees will learn in depth how to automate STK to create a scenario, export data, and import data back in to STK.

You have 14 days starting today to complete this test. You must receive a total grade of 80% or higher to pass.

Note: Trainees are recommended to be Level 1 & Level 2 certified prior to conducting this training.

# Overview Instructions:

1. **Install STK:** [Download STK](http://help.agi.com/stk/Content/training/ImageRelay.htm) + Add-ons and install it on your computer.
2. **License STK:** Follow the license instructions in the registration email.
3. **Complete the STK Lessons and associated quizzes:**
   1. Complete the STK Integration lessons. The lessons are in the [online STK Help](http://help.agi.com/stk/Content/training/UsingGlobeManagerInSTK.html#training/TutorialOverview.htm) and local STK Help (Training > Training Overview).
   2. There are five multiple choice questions to answer after the completion of each task.

*\* This test must be completed independently and must be* ***your own work****.*

1. **Submit answers in ClassMarker:**
   1. Follow the instructions in the registration email to log in to ClassMarker and submit your answers.
2. **Email** [**certification@agi.com**](http://help.agi.com/stk/Content/training/WhereisISS.htm) **when you have submitted your test in ClassMarker.**

**\* *Please Note:*** *Once you submit your test, we will grade it and get back to you within 5 business days. If you have a special circumstance, please let us know and we will try our best to accommodate your request.*

Below you will find the list of STK Integration tasks to complete with a link to the lesson and the associated quiz questions. *This pdf is for your reference only.* Submit your answers via the custom ClassMarker link provided in your STK Integration Certification confirmation email.

# STK Integration Lesson:

1. Link to lesson
2. Link to programming help pages

*Possible sources to copy data from to create the lesson:*

*Create basic core library lessons with:*

[*Using Core Libraries*](https://help.agi.com/stkdevkit/index.htm#coreLibraries.htm%3FTocPath%3DUsing%2520Core%2520Libraries%7C_____0)

[*STK Object Model Tutorial*](https://help.agi.com/stkdevkit/index.htm#stkObjects/ObjectModelTutorial.html)

[*Connect Introduction*](https://help.agi.com/stkdevkit/index.htm#../Subsystems/connect/Content/theVeryTop.htm%3FTocPath%3DUsing%2520Core%2520Libraries%7CConnect%7C_____0)

*Python focused instructions:*

[*Integrating STK with Python*](https://help.agi.com/stk/index.htm#training/StartPython.htm)

[*Python Code Snippets*](https://help.agi.com/stkdevkit/index.htm#stkObjects/ObjModPythonCodeSamples.htm)

# Quizzes:

1. Develop Understanding of the STK API
2. What are the two major sub-systems of the STK API?
   1. STK Util and Connect
   2. **STK Object Model and Connect**
   3. Connect and STK Graphics Primitive
   4. STK Object Model and STK Graphics Primitive
   5. STK Util and STK Object Model
3. Which is NOT an advantage of Connect?
   1. Easy to read, understand, and build
   2. **Supports auto completion and compile-time debugging**
   3. Easy to set multiple parameters on one or multiple objects with a single command
   4. Commands can be sent from applications in any programming language; all that is required is a socket connection to STK
4. In your code, you need to make sure that you know the \_\_\_\_\_ before you get/set values.
   1. **Units**
   2. Time
   3. Reference Parameters
5. (T/F) Connect commands can be used in a COM application, side-by-side with Object Model code.
   1. **True**
   2. False
6. (T/F) Connect is an object-oriented interface to STK, built on Microsoft COM technology.
   1. True
   2. **False**
7. [Establish](http://help.agi.com/stk/Content/training/GetStart_7_Chains.htm) a connection with STK and create a new scenario
8. Question
   1. 1
   2. 2
   3. 3
   4. 4
9. Question
   1. 1
   2. 2
   3. 3
   4. 4
10. Question
    1. 1
    2. 2
    3. 3
    4. 4
11. Question
    1. 1
    2. 2
    3. 3
    4. 4
12. Question
    1. 1
    2. 2
    3. 3
    4. 4
13. Automate inserting objects and defining object properties
14. Question
    1. 1
    2. 2
    3. 3
    4. 4
15. Question
    1. 1
    2. 2
    3. 3
    4. 4
16. Question
    1. 1
    2. 2
    3. 3
    4. 4
17. Question
    1. 1
    2. 2
    3. 3
    4. 4
18. Question
    1. 1
    2. 2
    3. 3
    4. 4
19. Export large datasets through scripting
20. Question
    1. 1
    2. 2
    3. 3
    4. 4
21. Question
    1. 1
    2. 2
    3. 3
    4. 4
22. Question
    1. 1
    2. 2
    3. 3
    4. 4
23. Question
    1. 1
    2. 2
    3. 3
    4. 4
24. Question
    1. 1
    2. 2
    3. 3
    4. 4
25. [Import](http://help.agi.com/stk/Content/training/usingExternalTerrainData.htm) large datasets in to STK and parse data
26. Question
    1. 1
    2. 2
    3. 3
    4. 4
27. Question
    1. 1
    2. 2
    3. 3
    4. 4
28. Question
    1. 1
    2. 2
    3. 3
    4. 4
29. Question
    1. 1
    2. 2
    3. 3
    4. 4
30. Question
    1. 1
    2. 2
    3. 3
    4. 4