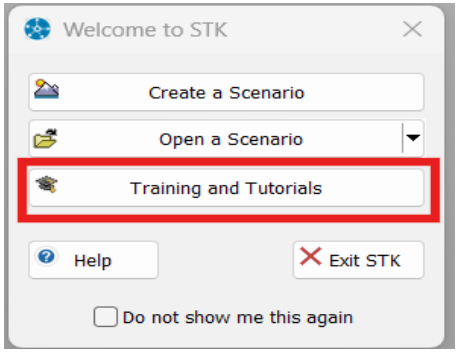
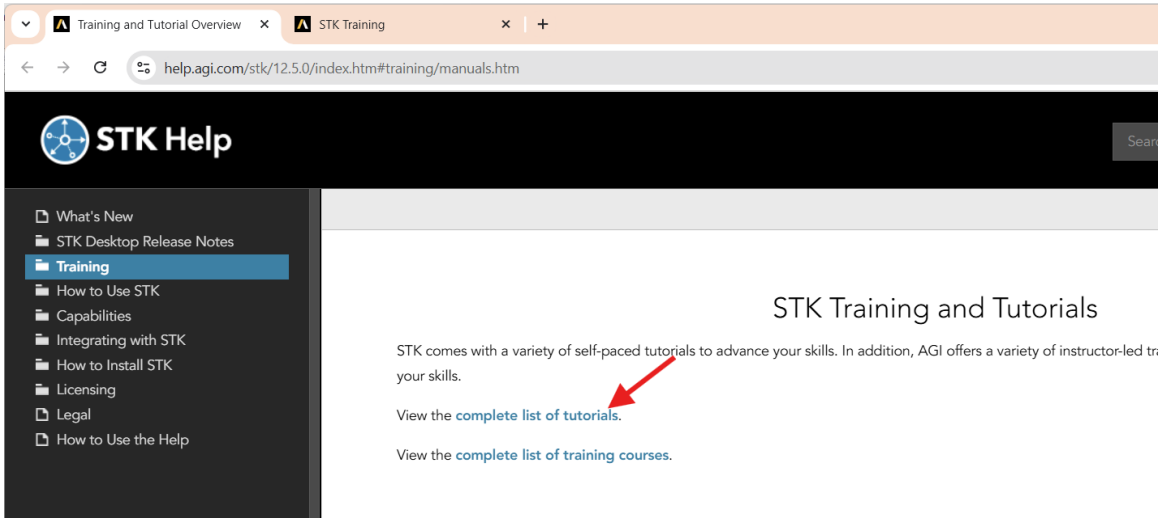
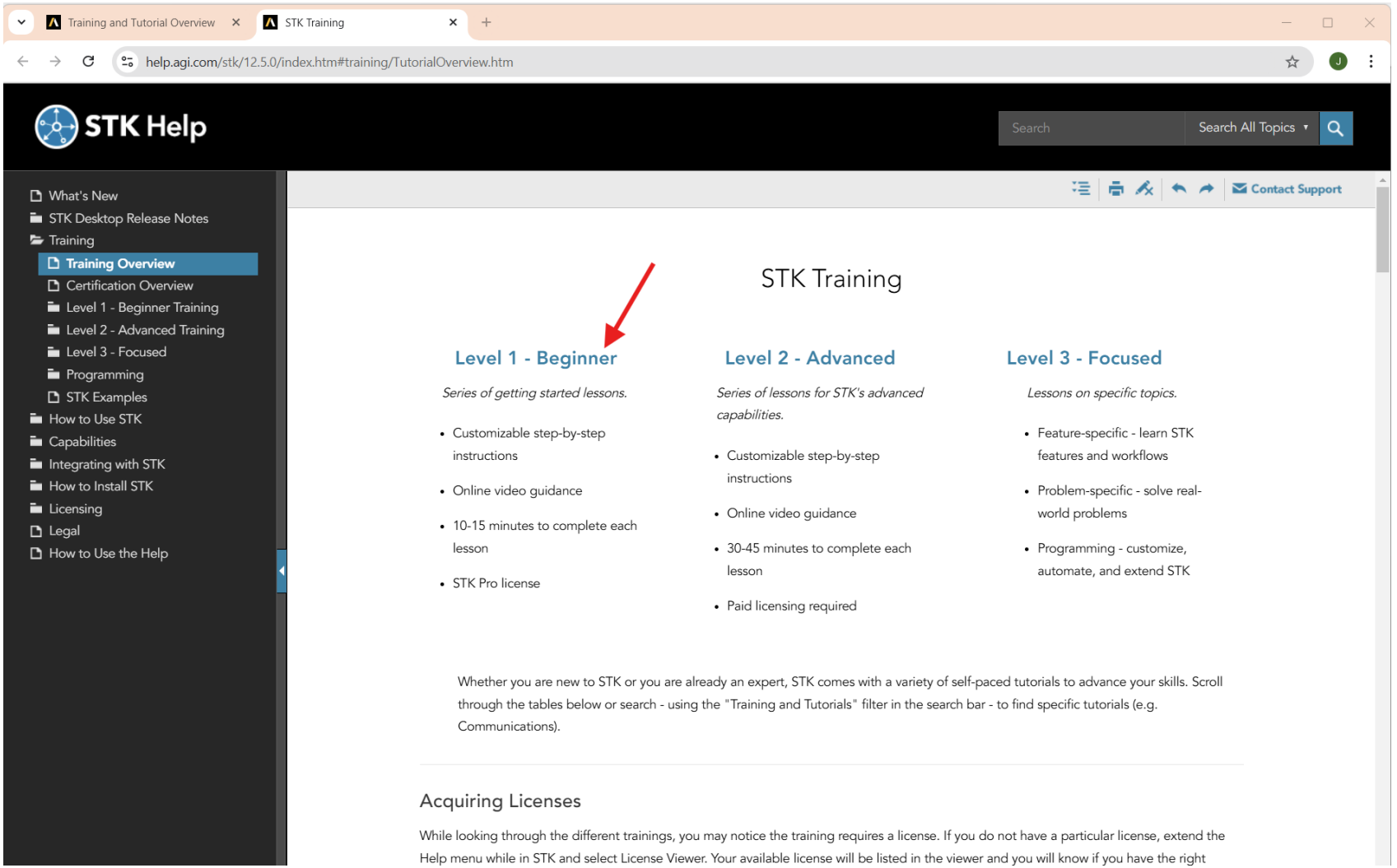
STK Training

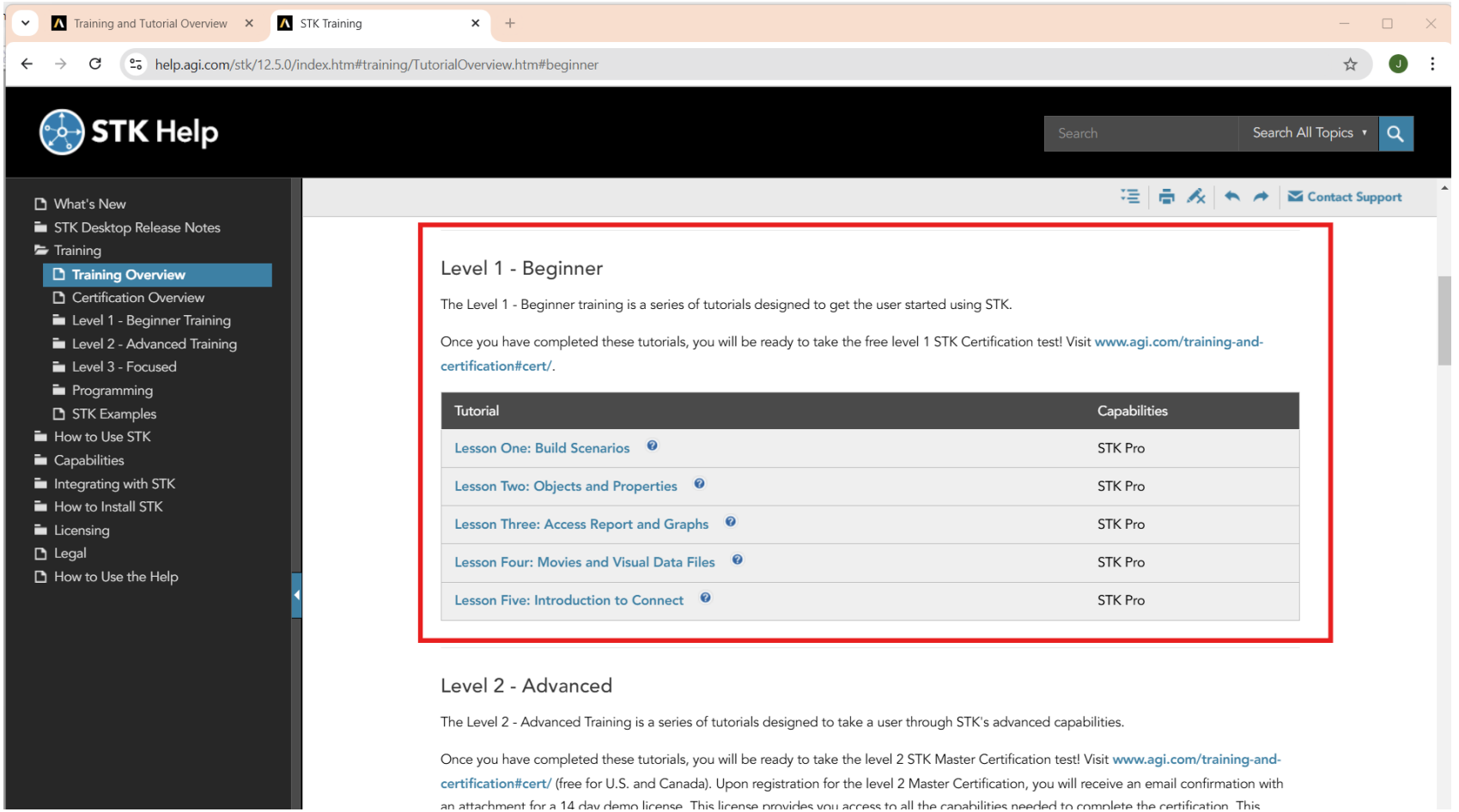




STK – Level 1


Training and Tutorial Overview
STK Training
help.agi.com/stk/12.5.0/index.htm#training/TutorialOverview.htm
STK Help
Search
Search All Topics
What's New
STK Desktop Release Notes
Training
Training Overview
Certification Overview
Level 1 - Beginner Training
Level 2 - Advanced Training
Level 3 - Focused
Programming
STK Examples
How to Use STK
Capabilities
Integrating with STK
How to Install STK
Licensing
Legal
How to Use the Help
Contact Support
STK Training
Level 1 - Beginner
Series of getting started lessons.
Customizable step-by-step instructions
Online video guidance
10-15 minutes to complete each lesson
STK Pro license
Level 2 - Advanced
Series of lessons for STK's advanced capabilities.
Customizable step-by-step instructions
Online video guidance
30-45 minutes to complete each lesson
Paid licensing required
Level 3 - Focused
Lessons on specific topics.
Feature-specific - learn STK features and workflows
Problem-specific - solve real-world problems
Programming - customize, automate, and extend STK
Whether you are new to STK or you are already an expert, STK comes with a variety of self-paced tutorials to advance your skills. Scroll through the tables below or search - using the "Training and Tutorials" filter in the search bar - to find specific tutorials (e.g. Communications).
Acquiring Licenses
While looking through the different trainings, you may notice the training requires a license. If you do not have a particular license, extend the Help menu while in STK and select License Viewer. Your available license will be listed in the viewer and you will know if you have the right

STK – Level 1


Training and Tutorial Overview
STK Training
help.agi.com/stk/12.5.0/index.htm#training/TutorialOverview.htm#beginner
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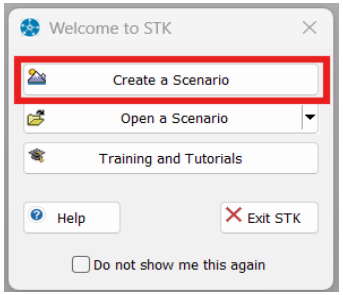
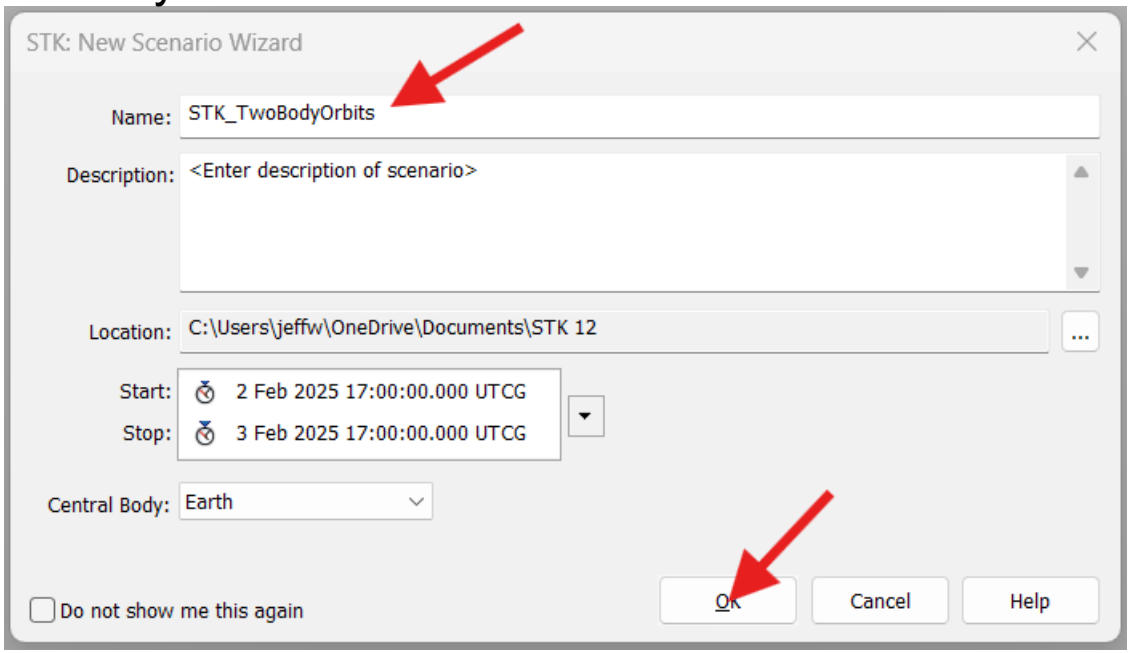
Level 1 - Beginner
The Level 1 - Beginner training is a series of tutorials designed to get the user started using STK.
Once you have completed these tutorials, you will be ready to take the free level 1 STK Certification test! Visit www.agi.com/training-and-certification#cert/.
Tutorial
Capabilities
Lesson One: Build Scenarios
STK Pro
Lesson Two: Objects and Properties
STK Pro
Lesson Three: Access Report and Graphs
STK Pro
Lesson Four: Movies and Visual Data Files
STK Pro
Lesson Five: Introduction to Connect
STK Pro
Level 2 - Advanced
The Level 2 - Advanced Training is a series of tutorials designed to take a user through STK's advanced capabilities.
Once you have completed these tutorials, you will be ready to take the level 2 STK Master Certification test! Visit www.agi.com/training-and-certification#cert/ (free for U.S. and Canada). Upon registration for the level 2 Master Certification, you will receive an email confirmation with

STK – Two-Body Orbits



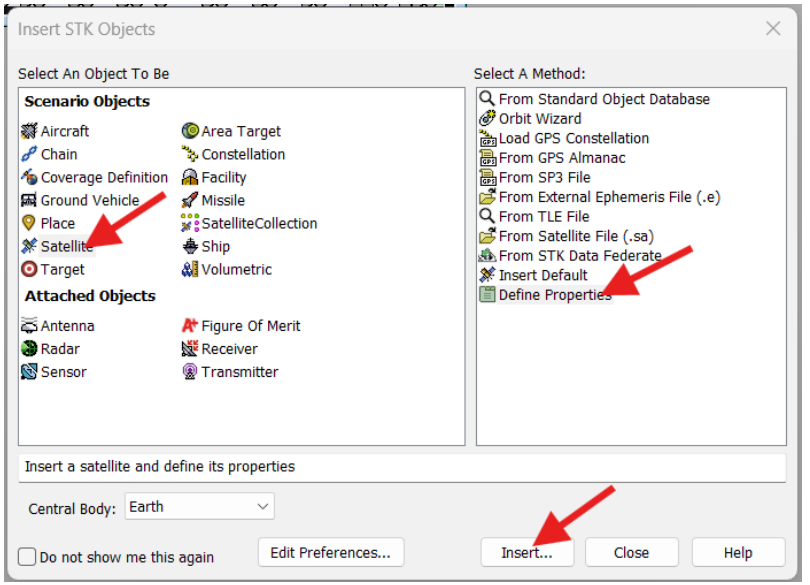
Name your scenario



STK – Two-Body Orbits

Insert a satellite object

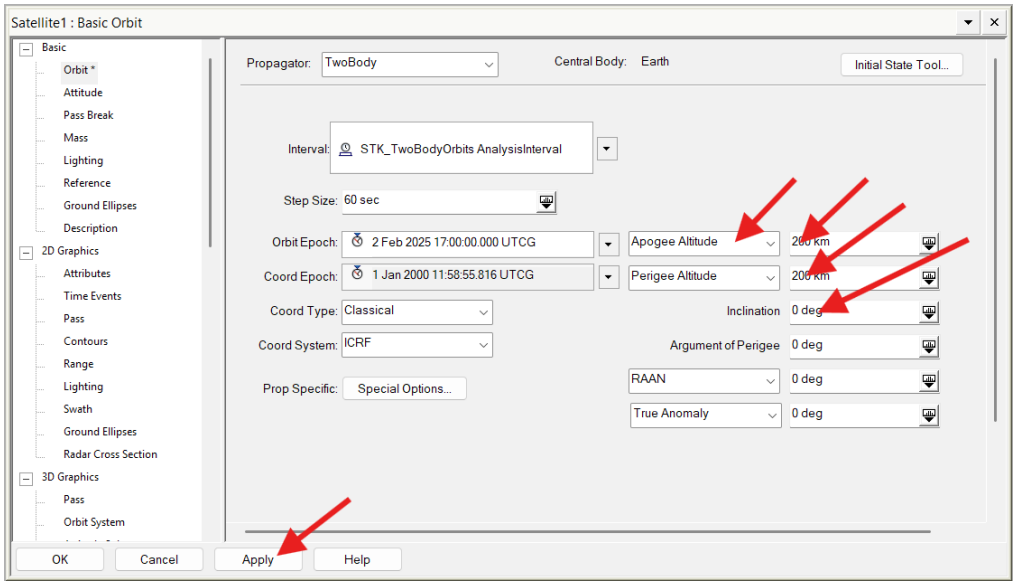
- Select 'satellite'
- Select 'Define Properties'
- Click 'Insert...'



STK – Two-Body Orbits

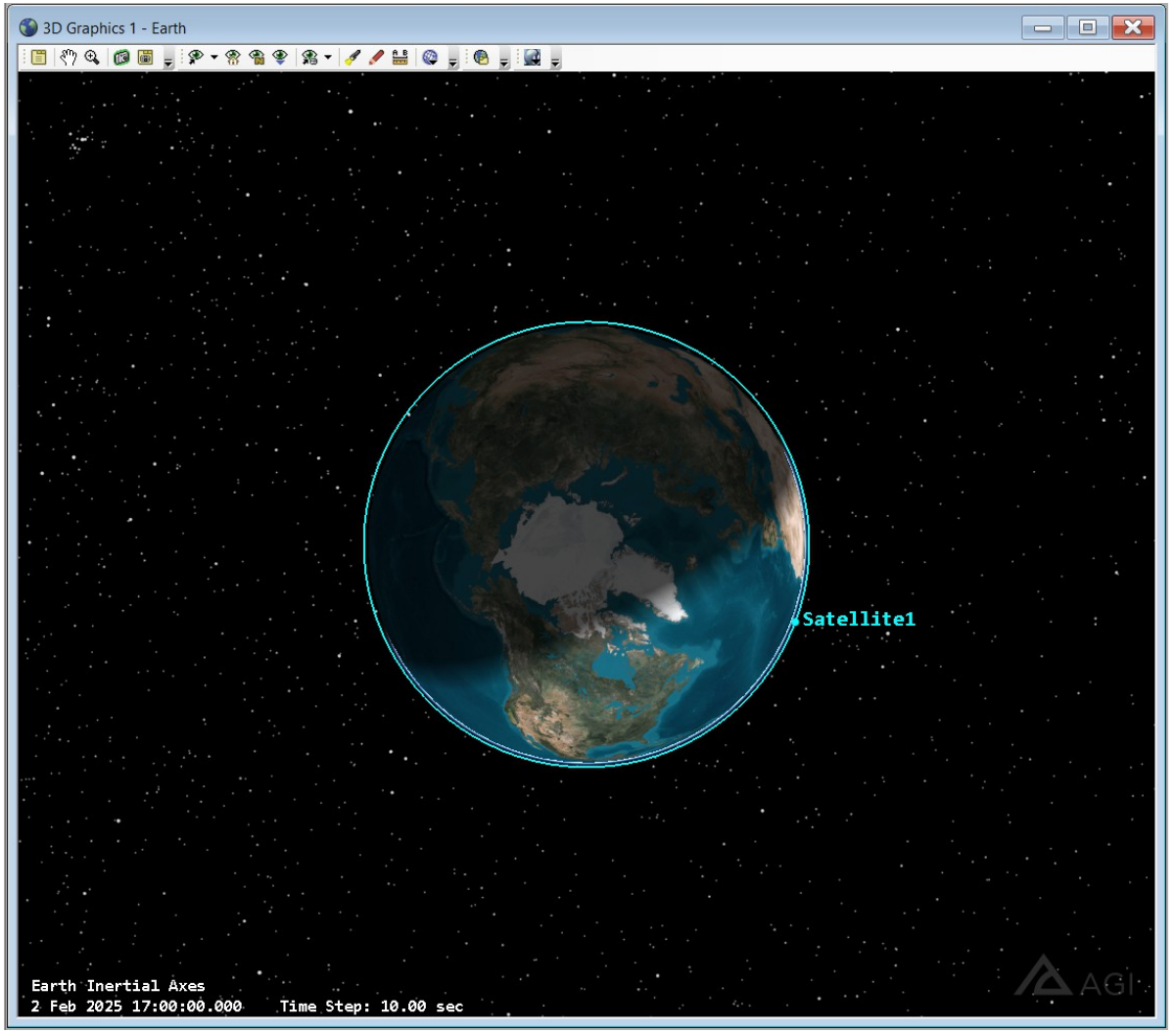
Circular orbit with 200km altitude

- Change 'Semi-major axis' to 'Apogee Altitude'
- Set value to 200 km
- Set value for Perigee Altitude to 200 km
- Set inclination to 0 deg
- Click 'Apply'



STK – Two-Body Orbits

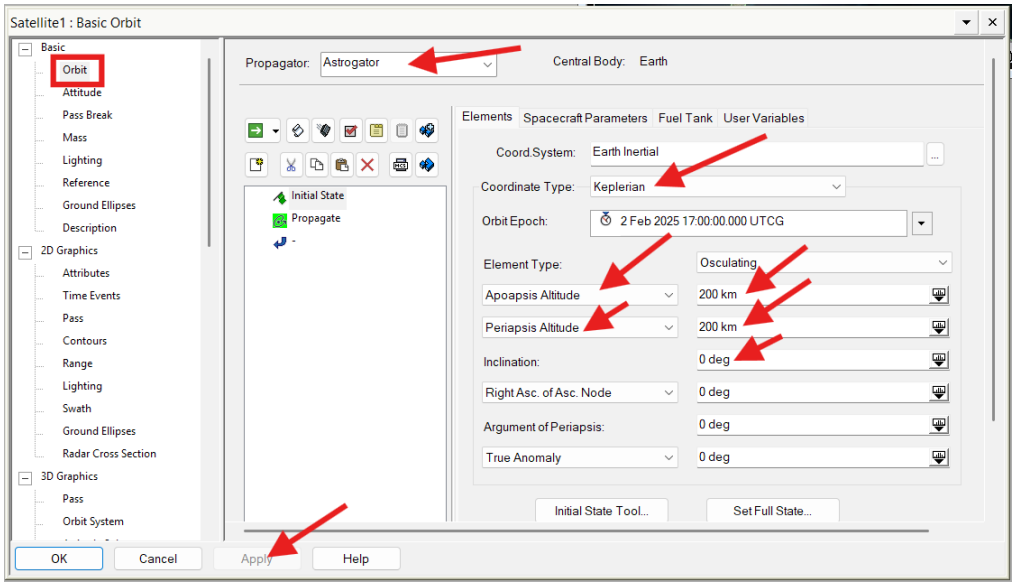
Using the mouse, rotate the 3-D view to look down on orbit plane from Earth's north pole



STK – Astrogator

For a circular orbit, under Basic | Orbit,

- Change propagator to 'Astrogator'
- Set Initial State,
  - Coordinate Type: Keplerian
  - Apoapsis Altitude: 500 km
  - Periapsis Altitude: 500 km
  - Inclination: 0 deg
- Click 'Apply'



STK – Astrogator

Under Basic | Orbit, Propagator: 'Astrogator'
Set Propagte Stopping Conditions,
Deactivate Duration (uncheck)
New...
Select: True Anomaly
Set Trip: 360 deg
Click 'Apply'
Click 'Run Entire Mission Control Sequence'