Getting Started with the Python Scripting Language

Register now

SGD$480 / pax

Level: Beginner | Course duration: 1 day

What is the course about?

This training course will teach you basics of the Python scripting language and will provide you with a solid foundation for writing Python scripts. On completing this course, you will have basic skills to begin writing scripts as well as the necessary background skills to undertake the ArcGIS specific Python courses.

Who is the target audience?

GIS professionals who wish to have a solid understanding of the Python language who wish to write geoprocessing scripts within the ArcGIS environment, including GIS Analysts, GIS Technical Leads, GIS Professionals, GIS Desktop Application Developers and Application Developers.

Are there any prerequisites?

- Completion of Introduction to Geoprocessing Scripts Using Python or equivalent knowledge is required

What skills will I learn?

After completing this course, you will be able to:

- Write Python scripts
- Understand the Python scripting language
- Be familiar with techniques for debugging code and fixing errors
- Modularise code

Course topics

The Basics of Python

- Integrated Development Environments
- Scripting syntax
- Functions and Modules

Debugging Your Code

- Checking for syntax errors
- Entering arguments into a script
- Debugging techniques
- Try – Except statements

Working with Strings, Lists and Dictionaries

- Common String functions
- Reading and writing to text files
- Common List functions
- Investigating Dictionaries

Key Python Modules

- Working with file pathways
- Creating random data
- Working with Time
- Getting Help for the modules

Creating Custom Functions

- Python Modules
- Writing functions
- Using Variables
- Importing modules; Module security