ArcGIS programming with PYTHON
Beginner profile

Pedagogical objectives

Discover the world of ArcGIS Pro development.

At the end of the course, participants will be able to:

- understand the basics of Python development and programming concepts
- Use basic ArcPy commands
- Start developing a Python script with ArcPy
- Discover the ArcGIS API for Python

Target audience
General public

Prerequisites
Solid computer skills and/or mastery of a computer language other than Python.
Knowledge of ArcGIS Pro and its geoprocessing functions.
Have a workstation equipped with ArcGIS Pro and associated licenses.

Teaching resources
Provision of a software license: no

Digital training material given to trainees (with concrete examples and practical exercises)

Evaluation questionnaire and end-of-training certificate

Duration   > 3 days (21h training)

Rates   > On quotation

Terms and conditions
Face-to-face training only
Dates to be defined

Registration
E-mail   > formation@arxit.com
Tel.   >+ 33 (0)5 46 34 07 71

For disabled access, please consult us

Contents

Day 1:
- Fundamentals of Python development

Day 2:
- Manipulating ArcPy base classes on geographic data in ArcGIS Pro

Day 3:
- Creating a toolbox to automate simple processes using ArcPy

Days 2 and 3 also enable you to complete your knowledge of Python using ArcGIS Pro.

DAY 1

Fundamentals of Python development

Learn the syntax and basics of development with Python 3 (variables, loops, conditions, functions, ...)

Reading/Writing files

Creating classes, organizing code in different files

DAY 2

ArcPy basics

Introduction to the ArcPy library

ESRI documentation and use of basic commands

Handling geoprocessing with ArcPy commands in ArcGIS Pro

DAY 3

Executing Python scripts

Automating geoprocessing with ArcPy in ArcGIS Pro

Using Notebooks in ArcGIS Pro

Creating standalone scripts, setting up scheduled tasks

ArcGIS API for Python

Introduction to the GIS library

Presentation of some examples

Links to ESRI documentation

Questions and answers