

# ARCGIS PROGRAMMING WITH PYTHON

## ADVANCED PROFILE

### PEDAGOGICAL OBJECTIVES

Master the main basic functions of the ArcGIS Pro application.

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

- Run basic ArcPy commands
- Develop a Python script with ArcPy
- Run ArcPY scripts in ArcGIS Pro or Standalone
- Discover the ArcGIS API for Python



#### TARGET AUDIENCE

Geomaticians/Administrators



#### PREREQUISITES

Basic knowledge of the Python language  
Knowledge of ArcGIS Pro and its geoprocessing tools  
Have a workstation equipped with ArcGIS Pro and associated licenses



#### TEACHING RESOURCES

Software license provided: no  
Digital training aids given to trainees



**DURATION** > 2 days (14h training)



**RATES** > On quotation



#### TERMS AND CONDITIONS

Face-to-face training only  
Dates to be defined



#### REGISTRATION

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

For disabled access, please consult us

### CONTENTS

- **Day 1:** Introduction to ArcPY, use of basic commands. Interface construction with Qt. Links to useful documentation.
- **Day 2:** Creating of plugins "geoprocessing" with GUI.  
Use of PyQGIS standalone scripts.  
Introduction to more advanced concepts:
  - Qt event management
  - Task/threading management (Qgs Task)

#### DAY 1

##### INTRODUCTION TO ARCPY

Introduction to the ArcPy library  
ESRI documentation and use of basic commands  
Handling geoprocessing with ArcPy commands in ArcGIS Pro

#### DAY 2

##### DEVELOPING PLUGINS WITH PYQGIS

Automating geoprocessing with ArcPy in ArcGIS Pro  
Using Notebooks in ArcGIS Pro  
Creating standalone scripts and setting up scheduled tasks

#### GIS LIBRARY

Introduction to the GIS library  
Presentation of some examples  
Links to ESRI documentation

#### QUESTIONS AND ANSWERS

