DEVELOPMENT ON QGIS WITH PYTHON

ADVANCED PROFILE

PEDAGOGICAL OBJECTIVES

Discover the world of QGIS development.

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

- Launching PyQGIS base commands
- Running PYQGIS scripts in standalone mode
- Create geoprocessing and GUI plugins
- Create plugins with dynamic interfaces and optimized resource management

TARGET AUDIENCE

Geomaticians/Administrators

PREREQUISITES

Basic knowledge of the Python language Knowledge of QGIS

TEACHING RESOURCES

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

REGISTRATIONS

Email > formation@arxit.com

Tel. >+ 33 (0)5 46 34 07 71

For disabled access, please contact us

CONTENTS

Day 1 :

- Introduction to PyQGIS, use of basic commands
- Building interfaces with Qt
- Links to useful documentation

Day 2 :

- Creation of plug-ins "geoprocessing" with GUI
- Using PyQGIS scripts in standalone mode
- Introduction to more advanced concepts :
  - Qt event management
  - Task/threading management (Qgs Task)

DAY 1

INTRODUCTION PYQGIS AND QT

A quick overview of Python syntax, concepts and development

Introducing Python in QGIS

PyQGIS documentation and use of basic commands

Introducing Qt Designer

Overview of useful plugins for developing with QGIS

DAY 2

PLUGIN DEVELOPMENT WITH PYQGIS

Organizing plugin files

Creation of a geoprocessing plugin

Standalone script execution

Introduction to Tasks and Threading for PyQGIS commands

Understanding and using events in Qt to build dynamic interfaces

Plugin creation, customization and execution with an advanced graphical interface

QUESTIONS AND ANSWERS