DEVELOPMENT ON QGIS WITH PYTHON

Advanced Profile

TRAINING OBJECTIVES

This training is intended for people who already have a basic knowledge of Python, knowledge of the QGIS software and who wish to discover the development environment in QGIS.

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

- Run basic PyQGIS commands
- Running PYQGIS scripts in Standalone
- Create geoprocessing and graphical interface plugins
- Create plugins with dynamic interfaces and optimized resource management

TARGET AUDIENCE

Geomaticians, administrators

PREREQUISITE

Have a basic knowledge of Python and have knowledge of QGIS

Come to training with your own laptop and have a QGIS version installed on your workstation

EDUCATIONAL RESOURCES

Digital course material given to the trainee (with concrete cases, practical exercises, technical sheets)

Evaluation questionnaires and certificate of completion of training

DURATION

> 2 days

REGISTRATION

Email > formation@arxit.com

Consulting us for accessibility for people with disabilities

PROGRAM

DAY 1

INTRODUCTION TO PYQGIS AND QT

Quickly Scan Syntax, Concepts, and Development with Python

Introduction to Python in QGIS

PyQGIS Documentation and Using Basic Commands

Qt Designer Overview

Overview of useful plugins for developing in QGIS

DAY 2

PLUGIN DEVELOPMENT WITH PYQGIS

Organizing a plugin's files

Creating a geoprocessing plugin

Standalone script execution

Introduction to Using Tasks, Threading for PyQGIS Commands

Understanding and Using Events in Qt to Build Dynamic Interfaces

Creation, customization, and execution of the plugin with an advanced GUI

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