ArcGIS Desktop GIS software

Initiation and advanced

OBJECTIVES

This training allows you to create, edit, view and publish Geographic Information under ArcGIS for Desktop. At the end of this internship, participants will be able to:

- ¬ Understand the fundamentals of Geographic Information
- ¬ Administrate, represent and organize GIS datasets
- ¬ Integrate external databases by joins to make graphic selections and SQL queries
- ¬ Set up thematic analysis by range of values, proportional symbols
- ¬ Work on raster-type data and digital terrain model (DTM)
- ¬ Work with geodatabase
- ¬ Perform geoprocessing (cutting, intersection, union)
- ¬ Advanced layers symbology and rules, layout and atlas production
- ¬ Getting started with ArGIS Model Builder

BACKGROUND

Basics in computing science and IT technologies.

PUBLIC

Everyone who wants to master ArcGIS for Desktop, handle, organize, represent and analyze cartographic datasets.

NUMBER OF TRAINEES

✓ On site : 10 people

DURATION   > 5 days

ORGANIZATION

Types of training

✓ Individual (France)
✓ On site in your country

Certificate training   >   Yes

Loan of temporary software licence   >   Yes

REGISTRATION

By e-mail: contact@maptogis.com
By phone: +33 546 34 07 71

TRAINING CONTENTS

REMINDERS ON GIS AND GEOGRAPHICAL INFORMATION (GI)
- The Geographical Information
- Coordinate systems, projections, Vector, Raster data, webservices
- Data suppliers& GIS applications

GETTING STARTED WITH ARCGIS
- ArcGIS:general description and preference tools
- Data connection, graphic selection, attribute and statistical data, bookmarks, measure a distance or an area, save a project

REPRESENTATION AND PUBLICATION OF GIS DATASETS
- Graphic semiology, Labels
- Thematic analysis
- Build a layout, print and export a map

JOINS AND DATA INTERROGATION
- Database joins and SQL query
- Data export

DATA CREATION (DIGITALIZATION)
- Create a Vector layer (shapefile format)
- Draw new geometries in a layer (drawing tools, points, lines, polygons)
- Update attribute datasets

RASTER DATA MANAGEMENT
- Raster georeferencing
- Ground control points (GCP)
- The new raster tool bar "image analysis" of ArcGIS for Desktop

ADVANCED GEODATABASE
- Notion of spatial reference
- Structure your geodatabase
- Createand manage a file or personal geodatabase
- Domains and subtypes in a geodatabase (automation / combination)
- Import / export structure of a geodatabase
- Raster data storage within a geodatabase

ADVANCED LAYOUT
- Advanced ATLAS/ dynamic pages

THE MODEL BUILDER
- Automation of tasks andspatial analysis