



DATA MANAGEMENT AND BUSINESS INTELLIGENCE

ArcGIS Pro: Essential Workflows

Course code: DMBI-018

SPARK TRAINING

Professional training courses for leaders, specialists, and organizations seeking practical capability development.

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— Workshop Overview

ArcGIS Pro is a powerful Geographic Information System (GIS) platform that enables professionals to visualize, analyze, and manage spatial data for better decision-making. This course provides participants with practical skills to efficiently use ArcGIS Pro for mapping, spatial analysis, data management, geoprocessing, and professional cartographic production across a wide range of industries.

Why Attend

The course combines instructor-led demonstrations, hands-on laboratory exercises, practical mapping projects, guided workshops, case studies, and real-world GIS applications to ensure participants gain practical experience using ArcGIS Pro.

Who Should Attend

GIS analysts and technicians
Urban and regional planners
Surveying and mapping professionals
Environmental specialists
Engineers and infrastructure professionals
Government and municipal GIS users
Professionals who use spatial data for planning

— Learning Objectives

- Navigate and use the ArcGIS Pro interface efficiently
- Create, edit, and manage spatial and attribute data
- Perform common GIS analysis and geoprocessing tasks
- Produce professional-quality maps and layouts
- Apply spatial analysis techniques to support decision-making
- Manage GIS projects and geodatabases effectively
- Share GIS data, maps, and analysis results with stakeholders

Course Outline

**DAY
1**

Getting Started with ArcGIS Pro

- Understanding GIS concepts and the capabilities of ArcGIS Pro
- Navigating the ArcGIS Pro interface and project environment
- Creating and managing GIS projects and map views
- Working with spatial data, layers, and coordinate systems
- Connecting to geodatabases, online services, and external data sources
- Managing project files and organizing GIS resources efficiently

**DAY
2**

Managing, Editing, and Visualizing Spatial Data

- Creating and editing spatial features and attribute information
- Managing feature classes, geodatabases, and data structures
- Applying symbology, labeling, and thematic mapping techniques
- Performing attribute queries and spatial selections
- Maintaining data quality through editing and validation tools
- Practical exercise: Building and managing a GIS dataset

**DAY
3**

Spatial Analysis and Geoprocessing

- Understanding geoprocessing tools and workflow automation
- Performing buffer, overlay, clipping, and spatial join analyses
- Conducting proximity, network, and suitability analyses
- Applying raster and vector analysis techniques for decision support
- Managing geoprocessing models and reusable workflows
- Practical workshop: Solving real-world spatial analysis problems

**DAY
4**

Map Design, Visualization, and Data Sharing

- Designing professional maps using cartographic principles
- Creating layouts with legends, scales, grids, and map elements
- Developing interactive visualizations and 3D scenes
- Publishing maps and sharing GIS content with stakeholders
- Exporting maps, reports, and digital products in various formats
- Applying best practices for communicating spatial information effectively

DAY
5

Advanced Workflows and GIS Project Management

- Managing enterprise geodatabases and collaborative GIS projects
- Automating repetitive GIS tasks using geoprocessing tools and task workflows
- Integrating ArcGIS Pro with web GIS and cloud-based GIS services
- Optimizing GIS workflows for efficiency and performance
- Troubleshooting common GIS challenges and data issues
- Final practical project: Developing a complete GIS workflow from data preparation to map production and analysis

— Upcoming Classroom Dates

Schedule available on request. Contact SPARK Training for current dates, locations, and fees.

— Certificate and Registration

Participants who attend and complete the full programme receive a SPARK Training Certificate of Completion. For registration, in-house delivery, or availability questions, contact info@sparktraining.eu or +31 85 115 0004.