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DATA MANAGEMENT AND BUSINESS INTELLIGENCE | DMBI-018

ArcGIS Pro: Essential Workflows

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Course content

Why Attend

Why Attend 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.

Course Methodology 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.

Course Objectives By the end of this course, participants will be able to:

- 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

Target Audience

- 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 and analysis

Course content

Target Competencies

- GIS data management
- Spatial analysis
- Digital mapping and cartography
- Geoprocessing workflows
- Geodatabase management
- Data visualization
- Spatial decision support
- GIS project management

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

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• 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

Course content

Seminar dates

Available seminar dates

Live dates and pricing for ArcGIS Pro: Essential Workflows generated from the course details page.

Date	Location	Format	Fee
Dates on request	Venue on request	Classroom	**Contact us**

Live online option	Online delivery is available at €1,850.-.