



مركز الوقت للتدريب
Time Training Center

**ArcGIS I/II: INTRO TO GIS ESSENTIAL
WORKFLOWS COURSE**



Introduction

Time Training Center's ArcGIS I/II: Intro to GIS Essential Workflows course provides a comprehensive foundation in geographic information systems (GIS) using ArcGIS software. It is ideal for individuals new to GIS or those seeking to formalize their skills in mapping, spatial analysis, and geospatial data management. As GIS applications expand across industries like urban planning, environmental management, and business analytics, mastering ArcGIS has become critical for professionals aiming to leverage location-based insights.

Learning Objectives

- Navigate and use ArcGIS Pro efficiently
- Create, edit, and manage geospatial data
- Perform basic spatial analysis and geoprocessing tasks
- Produce professional-quality maps and layouts
- Apply GIS workflows to solve real-world problems
- Share GIS projects and data with stakeholders

Course Details

Mode of Training	Classroom or Online
Duration	5 Days

Who Should Attend

- New GIS users across all industries
- Professionals in urban planning, environment, and utilities
- Researchers and analysts requiring spatial data skills
- Students and graduates in geography or related fields
- Professionals transitioning into geospatial roles

Certificate(s)

Participants who complete a minimum of 80% of the total training hours will receive a **Certificate of Completion** issued by **Time Training Center**. This certificate reflects their active participation and commitment to professional development in the relevant field.



Course Outline

Module 1: Introduction to GIS Concepts

- What is GIS? (Definition, Examples, Industries)
- Key Components: Maps, Layers, Features, Attributes
- How GIS Solves Problems
- Overview of GIS Data Types (Vector vs Raster)

Module 2: Getting Started with ArcGIS Pro

- Introduction to ArcGIS Platform (ArcGIS Pro, Online, Enterprise)
- ArcGIS Pro Interface Overview
- Setting Up a New Project
- Navigating Maps and Scenes (Zoom, Pan, Bookmarks)

Module 3: Understanding and Managing GIS Data

- Spatial Data Formats (Shapefiles, Geodatabases, Feature Classes)
- Layer Properties and Symbology Basics
- Attribute Tables: Viewing and Editing
- Best Practices for Data Organization

Module 4: Working with Coordinate Systems

- Basics of Projections and Coordinate Systems
- Setting and Defining Coordinate Systems
- Reprojecting Data (Overview)

Module 5: Making Maps: Cartography Essentials

- Designing a Basic Map
- Symbology: Styling Points, Lines, and Polygons
- Labeling Features
- Layouts: North Arrows, Scale Bars, Legends

Module 6: Basic Analysis and Queries

- Introduction to Spatial Queries (Select by Location, Select by Attribute)
- Introduction to Geoprocessing Tools (Buffer, Clip, Merge)
- Simple Analysis Workflows (e.g., finding locations within a distance)



Module 7: Sharing GIS Content

- Exporting Maps (PDF, PNG, Print Layouts)
- Introduction to Web Mapping with ArcGIS Online
- Sharing Data and Projects with Others

ArcGIS II: Essential Workflows — Course Modules

Module 1: Review of Core GIS Concepts

- Quick Refresher: Data Types, Coordinate Systems, Map Layouts
- Importance of Metadata and Data Accuracy

Module 2: Data Acquisition and Preparation

- Importing External Data (CSV, Excel, GPS, CAD)
- Geocoding Addresses
- Data Cleaning and Quality Control

Module 3: Advanced Symbolology and Labeling

- Graduated Symbols and Class Breaks
- Thematic (Choropleth) Mapping
- Advanced Label Expressions (Arcade Basics)

Module 4: Editing and Creating Data

- Creating New Feature Classes
- Digitizing Points, Lines, and Polygons
- Editing Vertices and Attributes
- Using Editing Templates

Module 5: Spatial Analysis Workflows

- Overlay Analysis (Intersect, Union, Spatial Join)
- Buffering and Proximity Analysis
- Hotspot and Density Mapping (Introduction)

Module 6: Modeling and Automating Workflows

- Introduction to ModelBuilder
- Building Simple Geoprocessing Models
- Running Batch Processes



Module 7: Sharing and Publishing GIS Projects

- Creating Map Packages and Layer Packages
- Introduction to ArcGIS Online StoryMaps
- Publishing Web Layers and Apps (ArcGIS Online basics)

Methodology

We employ a comprehensive and applied learning strategy, integrating theory with real-world implementation:

- ❖ **Conceptual Learning:** Expert-led sessions on catalytic theory and engineering principles
- ❖ **Interactive Workshops:** Group exercises, presentations, and technical discussion forums
- ❖ **Case-Based Learning:** Industry-specific examples and troubleshooting scenarios
- ❖ **Technology Integration:** Digital tools, simulations, and catalyst modeling applications
- ❖ **Assessment:** Pre-tests, post-tests, and Competence Validation Exams for Certified courses to ensure knowledge transfer and skills validation

Note: Instructors may adjust the training approach to fit technical requirements or participant engagement levels.

Instructors

Our instructors for the ArcGIS I/II course are GIS specialists with extensive experience in spatial data analysis, cartography, and geospatial project management. They have worked with government agencies, private consultancies, and multinational firms, bringing real-world expertise into the classroom. Their focus is on simplifying complex GIS concepts and ensuring learners can apply skills immediately. Detailed trainer profiles will be shared post-scheduling.

About Time Training Center

Time Training Center is a leading professional training institute in Abu Dhabi that provides students and professionals with quality education and skill development programs. Time Training Center is accredited by the Abu Dhabi Center for Technical Vocational Education & Training (ACTVET) with a specialization in Computer and Management Training programs and certified by QA QC with ISO 9001:2015.

Operating in Abu Dhabi for over 3 decades, Time Training Center has established brand value as a high-quality Management & Technical Training Center in Abu Dhabi. We have also secured strong loyalty from corporate companies and associations with our holistic and practical teaching approach.

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