مركز الوقت للتدريب
Time Training Center

ARC GIS PRO (UTILITY NETWORK) COURSE

Introduction

ArcGIS Pro (Utility Network) is a specialised training program designed to help GIS professionals, utility planners, and engineers master the capabilities of the ArcGIS Utility Network model. The course focuses on configuring, editing, and analysing complex utility networks using ArcGIS Pro's modern tools. Participants will learn to model electric, water, gas, or telecom infrastructure with precision, enhancing their ability to support asset management, outage tracking, and network analysis. This course is ideal for those involved in the digital transformation of utility services.

Learning Objectives

- Model utility infrastructure using ArcGIS Utility Network
- Configure network rules, domains, and asset types
- Perform advanced network tracing and analysis
- Apply editing tools for accurate network updates
- Integrate Utility Network with enterprise GIS

Course Details

Mode of Training	Classroom or Online
Duration	5 Days

Who Should Attend

- GIS analysts and specialists
- Utility engineers and planners
- Asset management and field operations teams
- IT professionals supporting GIS infrastructure

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 ArcGIS Utility Network

- Overview of Utility Network concepts and architecture
- Differences between Utility Networks and Traditional Geometric Networks
- Benefits and business drivers for migration

Module 2: Configuring Utility Network Models

- Setting up network types: electric, gas, water, telecommunications
- Defining asset groups, asset types, terminals, and categories
- Establishing network rules and domain configurations

Module 3: Editing and Validating Network Data

- Introduction to ArcGIS Pro editing tools for utility data
- Managing and updating subnetworks
- Data validation workflows and error management

Module 4: Network Tracing and Analysis

- Understanding tracing capabilities: upstream, downstream, loops, isolation
- Configuring trace settings and barriers
- Creating and working with network diagrams for visualization and analysis

Module 5: Integrating with Enterprise Systems

- Connecting Utility Network with SCADA (Supervisory Control and Data Acquisition)
- Integration with AMI (Advanced Metering Infrastructure) and CIS systems
- Leveraging APIs and web services for real-time data exchange

Module 6: Best Practices and Advanced Workflows

- Automating tasks with Python and ModelBuilder
- Optimizing performance for large-scale networks
- Planning and managing successful Utility Network implementations

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 are certified GIS professionals and Esri platform experts with over a decade of experience in utility mapping, geospatial analysis, and system implementation. They bring deep industry knowledge and have supported major utility companies in deploying Utility Network models. All instructors are vetted for technical mastery and classroom engagement. 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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