

# Hands-On ATM Essentials



## Course Description

Learn how ATM works within existing and next generation networks in this introductory ATM course, which will prepare you for more in-depth exploration of ATM's benefits and valuable solutions.

## Students Will Learn

- **ATM Core Concepts**
- **ATM Architecture and Tools**
- **ATM Transmission**
- **LAN Emulation**
- **Network Migration Considerations**

## Target Audience

End users, product manufacturers, and service providers marketing managers and specialists, network designers and engineers, network managers, product managers, sales engineers, systems administrators, technical managers, and telecom managers.

## Prerequisites

Have networking concepts and basic understanding of protocols.

## Course Outline

Module 1: ATM Core Concepts

Recognize how ATM has become a standard for companies looking to save money by converging their voice and data networks. Learn how ATM topologies, the ATM Cell, virtual circuits, packet switching technologies, tunneling, and other

critical concepts work and integrate with each other.

#### Module 2: ATM Architecture and Tools

Build your knowledge of ATM from the switch functions to UNI interfaces, IISP, PNNI, and ATM Inverse Multiplexing. Learn how the different ATM Adaptation Layers, traffic management, QoS categories and parameters, and network management tools allow voice, video, and data to share the same network.

#### Module 3: ATM Transmission

Learn how to create and use Private and Switched Virtual Circuits, dynamic networking, and switch functions to transmit ATM cells that meet the various QoS service levels that are required for different applications

#### Module 4: LAN Emulation

Learn how ATM can be used in the LAN environment using LAN Emulation (LANE). Discover how to encapsulate cells, resolve addressing issues, created LANE servers, and creating/maintaining the ARP table.

#### Module 5: Network Migration Considerations

ATM can be cost effective after an initial capital investment. Analyze how to most effectively migrate ATM technologies in different areas of your network, including the WAN, LAN, LAN Backbone, using real life examples of successful ATM migration.

## Delivery Method

Instructor-Led with numerous Hands-On Labs and exercises.

## Equipment Requirements

**(This apply's to our hands-on courses only)**

BTS always provides equipment to have a very successful Hands-On course. BTS also encourages all attendees to bring their own equipment to the course. This will provide attendees the opportunity to incorporate their own gear into the labs and gain valuable training using their specific equipment.

## Course Length

2 Days