

Course Name: ATM Fundamentals

Course Overview:

Asynchronous Transfer Mode (ATM) is a technology with established world wide standards on data transmission. Most companies and carriers in the industry today utilize ATM somewhere on their high-speed backbone. TESSCO has worked with industry experts to design one-day fundamentals course that focuses on existing and emerging ATM technology and trends. This course will provide insight into data communications from high-level, allowing students to leave the class with a strong understanding of ATM and some common network uses and troubles.

Course Length: 1 Day

Who should attend?

- Wireless Carriers
- Telephone/Wireline Carriers
- End Users
- Tower Companies
- Contracting Organizations
- Power Companies
- Telephone Companies
- Field Engineers
- Installers/Technicians
- Management staff

You will learn:

- What is ATM?
- Common reasons for using ATM
- Standard ATM Terminology
- Common ATM applications
- ATM Troubleshooting and Maintenance
- The Future of ATM

Prerequisites: None

Course Fees:

- 1-day course at TESSCO Location \$475 per person
- 1-day course at your location \$3,000 for up to 10 attendees

Customizable Course: Yes

Course Content:

ATM Overview

- What is ATM
- Standards
- Industry Trends

Applications

- Packet Based Overview
- Traditional Circuit switched
- Packet Switched
- Virtual Circuits
- Advantages of Packet Technologies
- Examples of Packet Based Technologies

OSI Model

- Purposes
- Layers
- LAN vs. WAN

ATM Overview

- Technology overview
- Physical Layer technologies
- Concatenation
- Advantages
- ATM at Layer 2
- ATM applications

Comparison to other technologies

ATM Basics

- Cell format
- Interfaces
- Addressing (VPI/VCI)
- ATM Networks
- ATM Equipment

ATM Parameters

- Service Categories
- Traffic Parameters
- Quality of Service (QoS)
- Usage Parameter Control (UPC)

ATM Maintenance

- Testing concepts
- Common Problems
- Physical Layer Testing

- Verifying LMI
- In Service Monitoring
- Out-of-Service Testing
- Percent of reliability

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The Future of ATM

- Direction/Future
- Interaction w/ other technologies
- ATM and MPLS