

MESH WIRELESS NETWORKS

This course is important for all organizations or agencies contemplating deploying Mesh Wireless connectivity in conjunction with new infrastructure or using their copper or fiber egress connections. We will cover both the technological and business case issues. This includes the risks of deploying (or not deploying) a Mesh Wireless Network.

Audience:

A wide variety of people need to understand Mesh Wireless Networks. This includes managers from Wired and Wireless Carriers, Equipment Manufacturers, Government Agencies and Enterprise communications managers

Prerequisites:

This course will focus on both the business and technical aspects of Mesh Wireless Networks. Attendees should have at least a basic understanding of voice, data and wireless technologies.

Objectives:

At the conclusion of this course the student will be able to:

- Address the business issues and develop a business case around deploying Mesh Wireless services in conjunction with their existing networks.
- Identify all the components, hardware, software and manufacturers required to deploy a true fully integrated working system
- Understand the provisioning and management of these services in the field
- Develop and execute strategies that will support the successful deployment of a Mesh Wireless Network.

MESH WIRELESS NETWORKS

COURSE OUTLINE

1. An Introduction to RF

2. An Introduction to Mesh Wireless

- Point to Point Wireless
- Point to Multipoint Wireless
- Mesh Wireless

3. Why Mesh Wireless is Important

- Self Forming
- Self Healing
- Ethernet Connectivity

4. Single Radio vs. Multiple Radio

5. Real Mesh vs. Other Mesh

- Bridging
- Switching
- Routing
- Algorithms

6. Multi-path – Friend or Foe

7. Metro Wireless – Campus Wireless

- Business models
- Economics
- ROI expectations

8. Planning and Sizing Mesh Wireless Networks

9. Operations and Post-Deployment Support

10. Machine to Machine Wireless Communications

- What your network will be talking to in the future
- Wimax -- where is the fit with current wi-fi radio technology?

11. Wireless Mesh Networking Components

- Technology Leaders
- Components
- Comparisons

12. Summary of Mesh Wireless Networks