

يوفر هذا المنهج التدريبي مقدمة ممتازة عن طبيعة عمل هذا النوع من الشبكات ومجموعة التكنولوجيات المستخدمة فيها، ويركز أيضا على فوائد التقنية والمالية. ويستعرض هذا البرنامج أيضا نظرة شاملة عن الخواص الفنية لهذا النوع من الشبكات.

Course Title: Wireless Local Loop
Course Reference: WLL-13A

Level: Introductory/Intermediate

Duration: 5 days

Description:

The course is designed to give an excellent understanding on Wireless Local Lop networks and how their special parameters can equally benefit operators and end users. The course will WLL deployments to the different technologies that are available as well as to the financial benefits. A good technical overview on WLL networks will also be delivered during this course.

Course Objectives:

Upon finishing this course the trainee will have:

- Understood the definitions of the wireless local loop networks and the main reasons behind their deployments.
- Known the different technologies that are being implemented and the main differences between them.
- Been aware of how to select the right technology for specific scenarios.
- Known the main access methods and the air interface of the available wireless technologies.
- Understood the propagation environment and how can it influence the performance of a wireless local loop network.
- Known how to develop a business case and how to apply for a license.
- Understood the factors that have an impact on rolling out a wireless local loop network.
- To comprehend the future of WLL networks and their deployments.

Who attends this course?

- Managers who are involved in selecting and offering WLL solutions.
- Engineers and technicians who are involved in specifying WLL systems.
- Engineers and technicians who are involved in testing and vetting the performance of the offered WLL network.
- Engineers and technicians who have a direct contact with network deployment processes.
- Team leaders.
- Radio planners.
- Network optimisation engineers and technicians.
- Project managers.
- Sub-contractors.
- Managers who manage technical staff.

Accessories:

All trainees will be supplied with "Wireless Domain Instruction Package" containing the complete course manual and CD for future reference to the course contents.

ما يحصل عليه المتدرب بعد انتهاء فترة التدريب:

- سيحصل المتدرب على معلومات شاملة ومفصلة عن هذا النوع من الشبكات.
- التعرف على التكنولوجيات المختلفة المستخدمة في شبكة الدوائر اللاسلكية المحلية.
- كيفية اختيار التقنية الضرورية والصحيحة لاداء فعال ومناسب.
- التعرف على العوامل المؤثرة على سير الاشارة الراديوية.
- التخطيط لاعداد الدراسات الخاصة بالشبكة وتقييم سير عملها.

الضمانات التي يمكن أن تستفيد من هذا المنهج التدريبي:

- المدراء ومدراء المشاريع.
- المهندسين.
- الفنيين.
- رؤساء الفرق الفنية.
- فرق تخطيط الشبكة وقياس ادائها.
- منفذي أعمال الشبكة.

Course Contents:

- **Wireless Local Loop**
What is it?
Why WLL?
Historical Review
- **Access Technologies**
Access via twisted Pair
Access via Coax
Access via TV broadcast
Access via WLL
Frequencies for WLL
- **TDMA or CDMA for WLL?**
- **Line of sight Propagation**
Diffraction
Reflection
Technologies available for WLL
Cordless technologies
Cellular technologies
Proprietary technologies
- **Choosing the right technology**
Capacity comparison
Cost comparison
Functional comparison
- **Getting a license**
- **Developing the business case**
- **Rolling out a WLL network**
- **The future of the WLL**