COURSE TABLE OF CONTENTS

Cellular Mobile Technologies (GSM)

OEM: Koenig Original • Duration: 4 Days (30 hrs)

COURSE MODULES & TOPICS

Module 1: Principles of Cellular Telecommunications
- Overview of cellular communication
- Evolution from 1G to 2G
- Advantages and disadvantages of each generation

Module 2: Features of GSM
- Key characteristics of GSM
- Benefits of GSM technology

Module 3: GSM Network Components
- Major elements of GSM networks
- Roles of network components

Module 4: GSM Terrestrial Interfaces
- Types of terrestrial interfaces
- Functions within GSM networks

Module 5: Channels on the Air Interface
- Types of air interface channels
- Channel functions and usage

Module 6: Radio Interface Optimization
- Techniques for optimizing radio interface
- Improving network performance

Module 7: Call and Handover Sequences
- Call setup procedures
- Handover processes in GSM

Module 8: Introduction to Microcellular
- Microcellular concepts
- Applications in GSM networks

Module 9: GSM Review
- Summary of GSM concepts
- Key takeaways and recap

Module 10: GPRS Introduction
- Basics of GPRS technology
- GPRS in GSM networks

Module 11: GPRS Terrestrial Interfaces
- GPRS-specific terrestrial interfaces

- Integration with GSM

Module 12: GPRS Air Interface

- GPRS air interface channels
- Data transmission methods

Module 13: GPRS Signaling

- Signaling procedures in GPRS
- Session management

Module 14: EDGE

- Introduction to EDGE technology
- Enhancements over GPRS