

MobileComm Professionals, Inc.

1255 W 15th Street, Suite 440

Plano, TX 75075

Tel: (972)-633-5100 Toll Free: 1-8777-RF-MCPS

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www.mcpsinc.com

Certification & Training on GSM to GPRS Course Duration (1 Month)

Course Content

- 1).Characteristic of Packet Switched & Circuit......(Half Day)
 Switched Networks-
 - Differences between packet switched & circuit switched networks.
 - Inefficiencies and limitations of circuit switched data.
- 2).Motivation for GPRS-....(Half Day)
 - •Limitations of a circuit switched network.
 - Requirements to support packet switched data.
 - •The limitations of circuit switched data.
 - New GPRS applications.
- 3).Evolution from GSM to GPRS-.....(1 Day)
 - Introduction and Background of GPRS.
 - New GPRS Components.
 - Benefits and limitations of GPRS
- 4).New Services with GPRS-.....(1 Day)
 - Service capabilities of GPRS.
 - "Always Connected".
 - Bandwidth on demand.
 - •GPRS data rates.
- 5).GPRS Key Features-....(1 Day)
 - Overview of GPRS
 - Overview of the enhancements provided by EDGE
 - GPRS and EDGE expected data rates.
- 6).GPRS Architecture-.....(2 Days)
 - Overview of GSM
 - Introduction to the GPRS Architecture & its main Components
 - SGSN
 - GGSN











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Required modifications to the existing network components

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7).GPRS Radio Network-.....(2 Days)

- Physical layer operations
- Error Protection techniques
- GMSK and 8PSK modulation
- MCS and CS classes
- Physical and logical channels

8).GPRS Mobility and Roaming-.....(3 Days)

- Cell Update process.
- RA Update.
- GPRS roaming exchange
- GPRS global roaming issues
- Functions and limitations of the GPRS
- Roaming exchange(GRX)
- Requirements of roaming between two operators

9).Attach Procedure.....(2 Days)

- Overview and purpose of the Attach Procedure
- Function and contents of the SGSN
- Subscriber Data Profile
- Introduction to the packet mobility
- Management layer in the SGSN

10).PDP Context Activation Procedure.....(2 Days)

- Functions of the Packet Data Context
- Activation Procedure
- Introduction to the session management layer in the SGSN
- GPRS Tunneling Protocol and transmission of data between the SGSN and GGSN

11).Session Maintenance..... (2 Days)

- "Always on"
- Receiving an incoming voice calls during a data session











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12).GPRS Mobiles...... (2 Days)

- Main types of GPRS Mobiles
- Requirements on the mobile to support packet data services
- Mobile synchronization with the radio network
- Operations between the mobile and GPRS core network

13).Evolution of GSM to GPRS and GPRS to UMTS......(1 Day)

- Impact of GPRS on GSM
- Strategy to evolve to GSM/GPRS

Holiday for Test Preparation......(2 Days)

Course Assessment through written test & mock interview







