



Troubleshooting Packet Switched Networks

Course Description

2G and 3G packet switched networks are still a key part of service assurance. This course requires access to your own service assurance monitoring and troubleshooting tools to aid in the investigation of potential network issues. In so doing, accessibility, retainability and mobility scenarios and workflows are examined.

Prerequisites: Analyzing the 2G and 3G Core Network.

Days
(LiveOnsite)

12
CPD Learning
Credits



This course will contain the following sections:

1. Applications for Troubleshooting

Topic areas covered include:

- · Applications for Troubleshooting.
- Troubleshooting Workflows.
- Troubleshooting Node and Interface Issues.
- User Plane Performance.

2. Principles of Network Performance Monitoring

Topic areas covered include:

- 3GPP Counters and KPI Definitions.
- · KPI Hierarchy.
- Performance Monitoring Reports.
- Example Reports.

Activity: Identifying Key KPIs used for Troubleshooting.

3. Troubleshooting PS Accessibility

Topic areas covered include:

- · Attach Failures:
 - GSM and UMTS KPIs.
- Performance Examples.
- Identify Interface and Node Monitoring Options.

Troubleshooting PS Accessibility (cont.)

Activity: PS Accessibility KPIs, Troubleshooting PS Attach Issues, workflows and Investigating Current Network Issues.

4. PS Retainability Troubleshooting

Topic areas covered include:

- Troubleshooting:
 - Access Issues.
 - RAN Release Issues.
 - PDP Context.

Activity: KPIs for Call Failures, Investigating Current Network Issues.

5. PS Mobility Troubleshooting

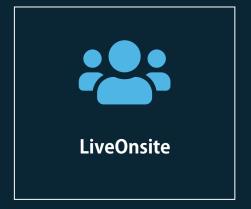
Topic areas covered include:

- · Troubleshooting:
 - Routing Area Updates.
 - GPRS PS Handovers.
 - UMTS Handovers and Relocations.

Activity: KPIs for Mobility Issues, Investigating Current Network Issues.













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