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Nokia NRN-522 (Nokia 5G RAN Network Operations Expert) Certification Exam is a professional certification exam that is designed to test the knowledge and skills of network professionals who are involved in the deployment, management, and maintenance of 5G RAN networks. Nokia 5G RAN Network Operations Expert certification exam is offered by Nokia, a leading provider of telecommunications equipment and services, and is aimed at network engineers, technicians, and other professionals who have experience working with 5G RAN networks.

Achieving the Nokia NRN-522 Certification demonstrates a high level of expertise and proficiency in 5G RAN network operations, making it an excellent credential for professionals looking to advance their careers in this field. It also allows organizations to identify individuals who possess the skills and knowledge necessary to effectively manage and operate their 5G RAN networks.

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Nokia NRN-522 exam is an essential certification for professionals seeking to become experts in Nokia 5G RAN network operations. It covers a wide range of topics and is recognized internationally, making it an excellent choice for individuals looking to advance their careers in the telecommunications industry. If you are interested in pursuing a career in 5G RAN network operations, obtaining the Nokia NRN-522 Certification should be a top priority.

Nokia 5G RAN Network Operations Expert Sample Questions (Q58-Q63):

NEW QUESTION # 58

A 'Loss of Synchronization Reference' alarm appears on a 5G cell. Which input to the BTS is this alarm most directly associated with?

- A. The handover success rate KPI
- **B. The GNSS/timing reference (e.g., GPS) or other synchronization source feeding the base station**
- C. The NetAct user account password
- D. The cell's neighbor relation list

Answer: B

Explanation:

5G base stations require accurate frequency, and for many configurations (especially TDD operation and features like carrier aggregation) phase/time synchronization, typically derived from a GNSS receiver such as GPS or from a network-distributed timing source such as Synchronous Ethernet or PTP/IEEE 1588 over the transport network. A 'Loss of Synchronization Reference' alarm indicates the BTS has lost access to its timing source. This can lead to degraded performance and, in TDD deployments, can cause uplink/downlink timing misalignment between neighboring cells (interference), and may force the cell out of service if synchronization cannot be maintained. The correct troubleshooting focus is therefore the GNSS antenna /receiver, related cabling, satellite visibility/obstructions, or the alternative network-based synchronization path - not neighbor relation configuration, handover KPIs, or NetAct account credentials, none of which relate to the BTS's timing reference source.

NEW QUESTION # 59

What is the primary purpose of the Xn interface in a 5G RAN architecture?

- A. It is used exclusively for software downloads from NetAct to the base station
- B. It connects the gNB to the core network for user authentication only
- **C. It provides direct communication between gNBs to support functions such as handover signaling and data forwarding during mobility**
- D. It connects the RF unit to the baseband unit within a single base station

Answer: C

Explanation:

The Xn interface is the logical interface that connects neighboring gNBs (5G base stations) directly to one another, serving a role analogous to the X2 interface in 4G LTE. Its primary purpose is to support mobility- related signaling and data exchange between gNBs - most notably during handover procedures, where the source and target gNB use the Xn interface to coordinate the handover, exchange context information about the UE, and forward any buffered downlink user-plane data to minimize service interruption during the transition. The Xn interface can also carry information used for interference management and load balancing between neighboring cells. It is distinct from interfaces connecting the gNB to the core network (such as the NG interface), from intra-base-station interfaces like CPRI/eCPRI connecting baseband and RF units, and from the O and M connectivity used for software management, each of which serves a different architectural function within the overall RAN system.

NEW QUESTION # 60

A NOC engineer observes an 'alarm storm' - dozens of alarms appearing within seconds across multiple cells served by the same site. What is the MOST likely explanation?

- A. These alarms are unrelated to the site and can be safely ignored
- **B. A shared resource serving all those cells - such as the transport link, power supply, System Module, or synchronization source - has failed**
- C. Each cell independently and coincidentally developed an unrelated hardware fault at exactly the same moment
- D. NetAct has a software defect that always duplicates alarms across cells

Answer: B

Explanation:

An 'alarm storm' - many alarms appearing across multiple cells at a single site within a short window - is a classic indicator that a shared resource serving all of those cells has failed. Multiple cells at a site commonly depend on the same System Module (baseband), the same transport connection back to the aggregation/core network, the same power supply, or the same synchronization source; a failure in any one of these shared elements can simultaneously impact every dependent cell, producing a burst of correlated alarms.

Recognizing this pattern allows the NOC engineer to search for a single common-cause fault - for example, a transport outage or System Module failure - rather than treating each cell's alarms as independent issues requiring separate investigation. It is extremely unlikely that multiple independent hardware faults occur simultaneously by coincidence, and such patterns should never be dismissed as a routine NetAct bug or simply ignored.

NEW QUESTION # 61

What is the standard alarm severity ordering used in NetAct Fault Management, from highest to lowest severity?

- A. Warning, Minor, Major, Critical
- B. Major, Critical, Warning, Minor
- C. Minor, Warning, Critical, Major
- **D. Critical, Major, Minor, Warning**

Answer: D

Explanation:

NetAct Fault Management follows the standard telecom alarm severity hierarchy: Critical, Major, Minor, and Warning, in descending order of severity. Critical alarms indicate a total or near-total loss of service, capability, or capacity, requiring immediate NOC action since they have the most severe impact on network availability and subscribers. Major alarms indicate serious degradation requiring prompt action, though typically with somewhat less urgency than Critical. Minor alarms represent non-service-affecting faults that should still be corrected to prevent future escalation into more serious issues. Warning alarms are generally informational or preventive, flagging conditions that could lead to a problem if left unaddressed but with no current service impact. Understanding this ordering is fundamental to NOC triage and prioritization: when multiple alarms appear on a dashboard, Critical alarms must be addressed first, followed by Major, Minor, and finally Warning, and this ordering underlies SLA-based response time commitments.

NEW QUESTION # 62

Within NetAct, which functional module is primarily responsible for planning, distributing, and activating software packages across base stations?

- A. Fault Management (FM)
- **B. Software Management (SWM)**
- C. Performance Management (PM)
- D. Configuration Management (CM)

Answer: B

Explanation:

The Software Management (SWM) module within NetAct is the centralized functional area responsible for the end-to-end software lifecycle of base stations and other network elements, including planning software deployment campaigns, distributing (downloading) software packages to target network elements, scheduling and triggering activation, and monitoring the success or failure of these operations across potentially large numbers of sites. This is distinct from Fault Management (FM), which handles alarms and fault

conditions; Performance Management (PM), which handles KPI and counter-based performance data; and Configuration Management (CM), which handles parameter and configuration provisioning. While these modules may interact - for example, a software activation might generate alarms visible in FM, or a software change might necessitate subsequent configuration adjustments via CM - the core responsibility for managing software packages, versions, and activation campaigns rests specifically with SWM, making it the primary tool a NOC engineer would use for software lifecycle activities.

NEW QUESTION # 63

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