

# Infinet Wireless Technical Course

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Certification Exam Content

# “Infinet Wireless Technical Course” certification exam content

The Infinet Wireless Technical Course exam is associated with Infinet Wireless Certified Engineer certification. The following topics are general guidelines for the content likely to be included on the exam. However, other related topics may also appear on any specific delivery of the exam. To better reflect the contents of the exam and for clarity purposes, the guidelines below may change at any time without notice.

Certification exam consists of 49 questions, including multiple-choice questions, as well as practical tasks that help make sure that the user understands the principles of Infinet devices configuring and is able to effectively use the product solutions.

## Content

Topic	Questions quantity
<b>Product portfolio:</b> <ul style="list-style-type: none"><li>Infinet products applications.</li><li>Product portfolio and key features.</li><li>Accessories, antennas and cables.</li></ul>	5
<b>Polling and TDMA technologies:</b> <ul style="list-style-type: none"><li>Polling and TDMA principle of operation and application.</li><li>Synchronization types when using TDMA technology.</li></ul>	3
<b>MINT Protocol:</b> <ul style="list-style-type: none"><li>MINT protocol principle of operation.</li><li>Switch group communication.</li></ul>	4
<b>Infinet proprietary radio technologies:</b> <ul style="list-style-type: none"><li>MIMO/MISO.</li><li>ARQ.</li><li>Greenfield.</li><li>DFS / Instant DFS.</li></ul>	1
<b>Wireless link configuration:</b> <ul style="list-style-type: none"><li>Radio parameters setting:<ul style="list-style-type: none"><li>Automatic Transmit Power Control.</li><li>Automatic control of the modulation.</li><li>STA RSSI.</li><li>etc.</li></ul></li><li>«Multicast» mode.</li><li>Access modes configuration.</li><li>Antenna alignment using built-in web interface tool.</li></ul>	10
<b>Switching in Infinet devices:</b> <ul style="list-style-type: none"><li>Switch groups.</li><li>VLAN tagged usage.</li><li>Remote management in VLAN configuration.</li><li>Redundancy schemes.</li><li>«Failover» principle of operation.</li><li>Channel aggregation.</li></ul>	12

Topic	Questions quantity
<b>QoS policies:</b> <ul style="list-style-type: none"> <li>• Quality metrics.</li> <li>• QoS methods.</li> <li>• Traffic prioritization mechanisms.</li> <li>• Traffic shaping.</li> </ul>	3
<b>Wireless links diagnostics:</b> <ul style="list-style-type: none"> <li>• Antenna alignment.</li> <li>• Performance test.</li> <li>• Wireless link statistics.</li> <li>• Diagnostic card review.</li> <li>• Interference analysis.</li> <li>• Radio Scanner.</li> </ul>	2
<b>Monitoring system InfiMONITOR:</b> <ul style="list-style-type: none"> <li>• Data reception.</li> <li>• Units/Links discovery.</li> </ul>	2
<b>Wireless link planning:</b> <ul style="list-style-type: none"> <li>• Link budget.</li> <li>• Free space loss.</li> <li>• Link margin.</li> <li>• InfiPLANNER.</li> </ul>	3
<b>Infinet equipment installation:</b> <ul style="list-style-type: none"> <li>• Requirements to the wireless devices placement.</li> <li>• Devices mounting on mast/pole/wall.</li> <li>• Grounding and lightning protection.</li> </ul>	2
<b>Radio fundamentals:</b> <ul style="list-style-type: none"> <li>• Multiple access methods.</li> <li>• Duplex communication systems.</li> </ul>	2