

# ND SATCOM

## Course Details: 8240

8240 - SKYWAN IDU 7000/1070 Network Commissioning & Operation	
<b>Title</b>	8240 - SKYWAN IDU 7000/1070 Network Commissioning & Operation
<b>Level</b>	Basic / Specialist
<b>Objectives</b>	<p>The participant will be able to: Plan and configure an entire SKYWAN network ready for network operation based on a predefined design, i.e.:</p> <ul style="list-style-type: none"><li>• Set initial network &amp; station parameter configuration,</li><li>• Configure network management relevant parameters,</li><li>• Monitor &amp; control relevant parameters for proper network operation,</li><li>• Maintain the required grade of service within the network.</li></ul>
<b>Contents</b>	<p>Description of SKYWAN solution:</p> <ul style="list-style-type: none"><li>• SKYWAN IDU features,</li><li>• SKYWAN NMS features.</li></ul> <p>SKYWAN NMS installation:</p> <p>Initial parameter configuration:</p> <ul style="list-style-type: none"><li>• Network Configurator (Configuration groups &amp; profiles concept; network planning, profile activation &amp; configuration upload),</li><li>• Satellite link (Configuration of station; network &amp; master/ backup-master),</li><li>• Network management parameter (Access control for node- &amp; network management).</li></ul> <p>Monitor &amp; control relevant parameters:</p> <ul style="list-style-type: none"><li>• Monitoring TDMA parameters (LED indications; essential parameters; monitoring screens),</li><li>• Reconfiguration cases (Fully meshed to star; new frequencies; add 2nd demodulator),</li><li>• Basic Pitfalls &amp; Troubleshooting.</li></ul> <p>Configure user traffic:</p> <ul style="list-style-type: none"><li>• IP-feature overview (OSPF, RoHC, load-balancing, IP multicast, TCP-A) and IP-router configuration,</li><li>• FR-feature overview and basic port configuration.</li></ul> <p>SKYWAN NMS network tasks:</p> <ul style="list-style-type: none"><li>• Network adjustments,</li><li>• MIB statistics,</li><li>• Useful graphs,</li><li>• Network trouble-shooting procedures.</li></ul>
<b>Target Group</b>	Network Operator
<b>Duration</b>	5 days
<b>Prerequisites</b>	<p>The following prerequisites are mandatory for the participant:</p> <ul style="list-style-type: none"><li>• Good knowledge in TCP/IP basics,</li><li>• Good knowledge in 'satellite communication fundamentals (VSAT)',</li><li>• General good English language skills.</li></ul>
<b>Environment</b>	SKYWAN IDU 7000/1070 hardware, PC or notebook with SKYWAN NMS software, inter-cabling of some SKYWAN stations for a small network.
<b>Methods</b>	Lecture, hands-on with NMS tools, demonstrations, practical exercises.