

# Model Curriculum

## DAS Set-top Box Installer and Service Technician

**SECTOR:** IASC  
**SUB-SECTOR:** COMMUNICATION & BROADCASTING  
**OCCUPATION:** AFTER SALES SERVICE  
**REF. ID:** IAS/ELE/Q8102 VERSION 1.0  
**NSQF LEVEL:** 4

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# DAS Set-top Box Installer and Service Technician

## CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “DAS Set-top Box Installer and Service Technician”, in the “Electronics” Sector/Industry and aims at building the following key competencies amongst the learner

<b>Program Name</b>	<b>DAS Set-top Box Installer and Service Technician</b>		
<b>Qualification Pack Name &amp; Reference ID.</b>	DAS Set-top Box Installation and Service Technician(IAS/ELE/Q8102 <b>version 1.0</b> )		
<b>Version No.</b>	1.0	<b>Version Update Date</b>	07 – 12 – 2015
<b>Pre-requisites to Training</b>	8th Pass* / 10th Pass / Diploma * with 2 years’ work experience		
<b>Training Outcomes</b>	<p><b>After completing this programme, participants will be able to:</b></p> <ul style="list-style-type: none"> <li>• Install the set top box</li> <li>• Address the serviceable complaints</li> <li>• Coordinate with technical team</li> <li>• Behavioural skills</li> <li>• Understanding of various components used in STB</li> <li>• Basic Knowledge of Soldering</li> <li>• Basic Knowledge of electro static devices</li> <li>• Basic Knowledge of quality</li> </ul>		

This course encompasses 3 out of 3 National Occupational Standards (NOS) of “DAS Set-top Box Installer and Service Technician” Qualification Pack issued by “Electronics Sector Skill Council of India”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p><b>DAS Installation &amp; Dish Assembly</b></p> <p><b>Theory Duration</b> (hh:mm) 04:00</p> <p><b>Practical Duration</b> (hh:mm) 04:00</p> <p><b>Corresponding NOS Code</b> ELE/N8101 , ELE/N811</p>	<ul style="list-style-type: none"> <li>Understand the procedure followed in Installation of DAS</li> <li>Installation Video of DAS <ul style="list-style-type: none"> <li>To explain and practise the assembling the different component of Dish assembly</li> </ul> </li> <li>Reflector Dish Assembly <ul style="list-style-type: none"> <li>To explain the mounting, LOS, Signal Peaking etc.</li> </ul> </li> <li>Mount Assembly <ul style="list-style-type: none"> <li>To explain and practise the assembling the different component of Dish assembly</li> </ul> </li> <li>Reflector Dish Assembly</li> </ul>	<p>For Demo:</p> <ol style="list-style-type: none"> <li>1 Reflector Antenna</li> <li>RJ 6 cable</li> <li>Connectors</li> <li>Set up box (exclusive for DTH)</li> <li>Remote</li> </ol> <p>Customer Application Form, Feedback Form, Packages Form</p> <p>Props depending on Activity, Videos, PPT's, Laptop, Projector, Projector Screen, White Board, Marker</p>
2	<p><b>HD PVR Installation and VOD connection and Cable &amp; Connector</b></p> <p><b>Theory Duration</b> (hh:mm) 04:00</p> <p><b>Practical Duration</b> (hh:mm) 05:00</p> <p><b>Corresponding NOS Code</b> ELE/N8101</p>	<ul style="list-style-type: none"> <li>HD PVR Installation and VOD connection.</li> <li>HD PVR installation</li> <li>To explain the difference between the boxes.</li> <li>To explain them the process of installing a HD/HD PVR box</li> </ul>	<ol style="list-style-type: none"> <li>For Tracking <ol style="list-style-type: none"> <li>Satellite Meter</li> <li>Service Cables</li> <li>Satellite Finder.</li> </ol> </li> <li>Television with HDMI input &amp; output &amp; Basic Home Theatre</li> </ol> <p>As mentioned in NOS: Multi meter, Hand tools like Tester, Spanner, Cutter, Angle finder, Satellite Meter, Drilling, For cabling</p> <ol style="list-style-type: none"> <li>Cable Tiles, P clips</li> <li>Cable Preparation Tool</li> </ol> <p>2 Others:</p> <ol style="list-style-type: none"> <li>Set up of a moving Wall(8.5'x1.25')</li> <li>Compression Tool</li> <li>Tape</li> <li>Compass</li> </ol> <p>3 Cables (10 mtrs).</p>
3	<p><b>Trouble Shooting</b></p> <p><b>Theory Duration</b> (hh:mm) 02:00</p> <p><b>Practical Duration</b> (hh:mm) 02:00</p> <p><b>Corresponding NOS Code</b> ELE/N8101</p>	<ul style="list-style-type: none"> <li>Standard box o Common issues with STD boxes</li> <li>Trouble Shooting steps</li> <li>HD Box</li> <li>Common issues with HD Box.</li> <li>Trouble shooting steps</li> <li>HDPVRBox o Common issues with HDPVR Box.</li> <li>Trouble shooting steps</li> </ul>	<p>Tool Kit –</p> <ol style="list-style-type: none"> <li>Spanners -10,11, 12, 13mm</li> <li>Ring Spanners- 10,11,12,13mm</li> <li>Screw drivers- Plus Minus, Philips</li> <li>Drilling Machines- 8mm,10,mm,12mm</li> </ol>

5	<p><b>DAS Packages</b></p> <p><b>Theory Duration</b> (hh:mm) 05:00</p> <p><b>Practical Duration</b> (hh:mm) 08:00</p> <p><b>Corresponding NOS Code</b> ELE/N8101</p>	<ul style="list-style-type: none"> <li>Understand different types of packages provided by DAS. <ul style="list-style-type: none"> <li>To explain the mounting, LOS, Signal Peaking etc.</li> </ul> </li> <li>Mount Assembly</li> </ul>	<p>Videos, PPT's, Laptop, Projector, Projector Screen, White Board, Marker</p> <p>Videos, PPT's, Laptop, Projector, Project or Screen, White</p>
6	<p><b>Demo of HD/HD PVR Box Dish Assembly</b></p> <p><b>Theory Duration</b> (hh:mm) 06:00</p> <p><b>Practical Duration</b> (hh:mm) 12:00</p> <p><b>Corresponding NOS Code</b> ELE/N811, ELE/N8101</p>	<ul style="list-style-type: none"> <li>To explain and practise the assembling the different component of Dish assembly</li> <li>Reflector Dish Assembly</li> <li>Understand the procedure followed in Installation of DAS</li> <li>Installation Video of DAS</li> </ul>	<p>For Demo:</p> <ol style="list-style-type: none"> <li>1 Reflector Antenna</li> <li>RJ 6 cable</li> <li>Connectors</li> <li>Set up box (exclusive for DTH)</li> <li>Remote</li> </ol>
7	<p><b>Customer Service/Focus</b></p> <p><b>Theory Duration</b> (hh:mm) 14:00</p> <p><b>Practical Duration</b> (hh:mm) 02:00</p> <p><b>Corresponding NOS Code</b> ELE/N8102</p>	<ul style="list-style-type: none"> <li>To create an understanding of customer needs and ways in which they can ensure customer satisfaction.</li> <li>What does customer want?</li> <li>How to achieve customer satisfaction?</li> <li>To creating an understanding of customer needs and ways in which they can ensure customer satisfaction.</li> <li>Promptness</li> <li>To establish the importance of prompt resolution</li> </ul>	<p>Customer Application Form, Feedback Form, Packages Form</p> <p>Props depending on Activity,</p>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	<p><b>Total Duration</b></p> <p><b>Theory Duration</b> (hh:mm) <b>35.00</b></p> <p><b>Practical Duration</b> (hh:mm) <b>33.00</b></p>	<p><b>Unique Equipment Required:</b></p> <ol style="list-style-type: none"> <li>1. Set top box</li> <li>2. Television</li> <li>3. Drilling machine</li> <li>4. Satelite Meter</li> <li>5. Angle Meter</li> <li>6. Multi meter</li> <li>7. Spanner</li> <li>8. Lead tester, spanner, cutter</li> <li>9. RF Strength Meter</li> <li>10. QAM meter</li> </ol>	

**Grand Total Course Duration: 68 Hours 00 Minutes**