



Model Curriculum

DTH Set-top Box Installer and Service Technician

SECTOR:	ELECTRONICS
SUB-SECTOR:	COMMUNICATION &
	BROADCASTING
OCCUPATION:	AFTER SALES SERVICES
REF. ID:	ELE/Q8101, VERSION 1.0
NSQF LEVEL:	4











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DTH Set-top Box Installer and Service Technician

CURRICULUM / SYLLABUS

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

Program Name	DTH Set-top Box Install	er and Service Technician	
Qualification Pack Name & Reference ID.	DTH Set-top Box Installer and Service Technician(ELE/Q8101 version 1.0)		
Version No.	1.0	Version Update Date	07 – 12 – 2015
Pre-requisites to Training	8th Pass* / 10th Pass / Di * with 2 years' work expe		
Training Outcomes	 Express excellence in Establish Moments of Understand the basic Employ rapport build Demonstrate valuing. Communicate effective Respond to non-verbasic 	Truth. steps in a Service Call ing skills vely. al cues in communication. the styles of communication. riate listening skills. st. esolve problems. mers.	



This course encompasses 3 out of 3 National Occupational Standards (NOS) of "DTH 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	Welcome and Introduction Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code	 Getting to know each other o Welcoming the participants To create awareness about the company and its core values. To create Pride in the brand value of DTH o Daily Life Video o Introduction to DTH - Quiz 	Videos, PPT's, Laptop, Projector, Projector Screen, White Board, Marker, Duster, Attendance Sheet, Feedback Form, Internet
2	ELE/N8102 Role Clarity Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 05:00 Corresponding NOS Code	 To provide an Overall understanding of the process (Service Model) To help the participants get role clarity and understand their daily activities. o Work flow, Roles and Responsibilities 	Videos, PPT's, Laptop, Projector, Projector Screen, White Board, Marker, Duster, Attendance Sheet, Feedback Form, Internet
3	ELE/N9951 Customer Service/Focus Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code ELE/N8102	 To create an understanding of customer needs and ways in which they can ensure customer satisfaction. What does customer want? How to achieve customer satisfaction? 	Customer Application Form, Feedback Form, Packages Form Props depending on Activity,
4	Customer Focus Theory Duration (hh:mm) 05:00	 To creating an understanding of customer needs and ways in which they can ensure customer satisfaction. Promptness To establish the importance of prompt resolution 	Videos, PPT's, Laptop, Projector, Projector Screen, White Board, Marker, Duster, Attendance Sheet, Feedback Form, Internet







Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Practical Duration (hh:mm) 10:00 Corresponding NOS Code ELE/N8102	 To establish the importance of visiting a subscribers personal space – Their Home. Respecting Personal Space To create an understanding of active listening skills o Listening Skills 	
5	Handling Dissatisfied / Irate Customer Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code ELE/N8102	 Understand the issue and provide resolution to issue faced by subscriber What are the customer expectations? Reasons for customer to get Irate? How to handle irate situation? 	Customer Application Form, Feedback Form, Packages Form Props depending on Activity
6	DTH Installation Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code ELE/N8105	 Understand the procedure followed in Installation of DTH Installation Video of DTH 	For Demo: a. 1 Reflector Antenna b. RJ 6 cable c. Connectors d. Set up box (exclusive for DTH) e. Remote
7	Dish Assembly Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code ELE/N8105	 To explain and practise the assembling the different component of Dish assembly Reflector Dish Assembly 	For Demo: a. 1 Reflector Antenna b. RJ 6 cable c. Connectors d. Set up box (exclusive for DTH) e. Remote
8	Mount Assembly	 To explain the mounting, LOS, Signal Peaking etc. Mount Assembly 	Videos, PPT's, Laptop, Projector, Projector Screen, White





Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Theory Duration		Board,
	(hh:mm)		Marker, Duster, Attendance
	05:00		Sheet, Feedback Form, Internet
	Practical Duration		
	(hh:mm)		
	10:00		
	Corresponding NOS		
	Code ELE/N8105		
9	Connectorization	Demonstrate and Practise	Tool Kit –
	connectorization	connectorization	a. Spanners -10,11, 12,
	Theory Duration	Connectorization of cable with box and	13mm
	(hh:mm)	LNBF	b. Ring Spanners-
	05:00		10,11,12,13mm
			c. Screw drivers- Plus
	Practical Duration		Minus, Philips
	(hh:mm)		d. Drilling Machines-
	10:00		8mm,10,mm,12mm
	Corresponding NOS		
	Code		
	ELE/N8105		
10	Signal Peaking	To gauge the adeptness of trainees in	
		signal peaking using Sat finder,	
	Theory Duration	Connectorisation tool and inclinometer	
	(hh:mm)	Signal peaking with Sat finder	
	05:00		
	Practical Duration		
	(hh:mm)		
	10:00		
	Corresponding NOS		
	Code		
	ELE/N8105		
11	HD PVR Installation and	HD PVR installation	Tool Kit –
	VOD connection	• To explain the difference between the	a. Spanners -10,11, 12,
		boxes.	13mm
	Theory Duration	• To explain them the process of installing	b. Ring Spanners-
	(hh:mm)	a HD/HD PVR box	10,11,12,13mm
	05:00		c. Screw drivers- Plus Minus, Philips
			d. Drilling Machines-
	Practical Duration		8mm,10,mm,12mm
	(hh:mm)		1. For Tracking :
	10:00		a. Satellite Meter
			b. Service Cables
			c. Satellite Finder
			2. For cabling





Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Corresponding NOS		a. Cable Tiles, P clips
	Code		b. Cable Preparation
	ELE/N8105		Tool
			2. Others:
			a. Set up of a moving Wall(8.5'x1.25')
			b. Compression Tool
			c. Tape
			d. Compass
			3. Cables (10 mtrs).
			4. Television with HDMI
			input & output & Basic
			Home Theatre
			As mentioned in NOS:
			Multi meter, Hand tools like
			Tester, Spanner, Cutter, Angle
			finder,
			Satellite Meter, Drilling
			Machine,
			RF Strength Meter
12	HD PVR Installation and	HD PVR Installation and VOD connection	7. Television with HDMI
	VOD connection		input & output & Basic
			Home Theatre
	Theory Duration		As mentioned in NOS:
	(hh:mm)		Multi meter, Hand tools like Tester,
	05:00		Spanner, Cutter, Angle
			finder,
	Practical Duration		Satellite Meter, Drilling
	(hh:mm)		Machine,
	10:00		RF Strength Meter
	Corresponding NOS		
	Code		
	ELE/N8105		
13	Trouble Shooting	Standard box o Common issues with	Multi meter, Hand tools like
15	frouble shooting	STD boxes	Tester,
	Theory Duration	Trouble Shooting steps	Spanner, Cutter, Angle
	(hh:mm)	HD Box	finder,
	05:00	• Common issues with HD Box.	Satellite Meter, Drilling
		Trouble shooting steps	Machine,
	Practical Duration	HD PVR Box o Common issues with HD	RF Strength Meter
	(hh:mm)	PVR Box.	
	10:00	Trouble shooting steps	
	Corresponding NOS		
	Code		
	ELE/N8105		
14	DTH Packages	Understand different types of packages	Videos, PPT's, Laptop,
	-	provided by DTH	Projector,
			Projector Screen, White





Module	Key Learning Outcomes	Equipment Required
Theory Duration (hh:mm) 05:00		Board, Marker
Practical Duration (hh:mm) 10:00		
Corresponding NOS Code ELE/N8105		
DTH Product Theory Duration (hh:mm) 05:00	 Understand different products of DTH Standard, HD and HD PVR box and its features. VoDetc and its features 	Videos, PPT's, Laptop, Projector, Projector Screen, White Board, Marker
Practical Duration (hh:mm) 10:00		
Corresponding NOS Code ELE/N8105		
Demo of STD Box Theory Duration (hh:mm) 05:00	 To create an understanding of the features to be covered in the Demo Provide demonstration of STD box to Subscriber post installation 	STD Box
Practical Duration (hh:mm) 10:00		
Corresponding NOS Code ELE/N8105		
Demo of HD / HD PVR box	features to be covered in the DemoProvide demonstration of HD/HD PVR	HD / HD PVR box
(hh:mm) 05:00	installation	
Practical Duration (hh:mm) 10:00		
	Theory Duration (hh:mm) 05:00Practical Duration (hh:mm) 10:00Corresponding NOS Code ELE/N8105DTH ProductTheory Duration (hh:mm) 05:00Practical Duration (hh:mm) 10:00Corresponding NOS Code ELE/N8105Demo of STD BoxTheory Duration (hh:mm) 05:00Practical Duration (hh:mm) 10:00Corresponding NOS Code ELE/N8105Demo of STD BoxTheory Duration (hh:mm) 05:00Practical Duration (hh:mm) 10:00Corresponding NOS Code ELE/N8105Demo of HD / HD PVR boxTheory Duration (hh:mm) 05:00Practical Duration (hh:mm) 05:00	Theory Duration (hh:mm) 05:00 Image: Construct of the second





Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Corresponding NOS		
	Code		
	ELE/N8105		
18	KAT & Certification	To Assess the training outcome	
	Theory Duration (hh:mm) 05:00	• Assessment questions in MCQ, Fill in the blanks, Match the following, State true or false	
	Practical Duration (hh:mm) 10:00		
	Corresponding NOS		
	Code		
	Bridge Module		
	Total Duration Theory Duration (hh:mm) 90:00	Unique Equipment Required: 1. Set top box, 2. Dish, 3. Television, 4. Drilling 6. Angle Meter, 7. Multi meter, 8. Spanner, 9. 10. RF Strength Meter, 11. QAM meter	
	Practical Duration (hh:mm) 170:00		

Grand Total Course Duration: 260 Hours 00 Minutes

This syllabus/ curriculum has been approved by Electronics Sector Skill Council





Trainer Prerequisites for Job role: "DTH Set-top Box Installer and Service Technician" mapped to Qualification Pack: "ELE/Q8101 version 1.0"

Sr. No.	Area	Details	
1	Job Description	Set top box technician is responsible for installing the set top box at client's site (households) and also addresses the first level complaints and servicing, they also co-ordinates with the technical team for activation of new connections	
2	Personal Attributes	The individual must be willing to work in the field and travel through the day from one customer's premise to another. Punctuality, amenable behaviour, patience, good interpersonal relationship building, trustworthiness, integrity, and critical thinking are important attributes for this Job	
3	Minimum Educational Qualifications	Diploma in Electronics with at least 1-2 years of experience in installation and troubleshooting of Set Top Box and Direct to Home (DTH) systems. Should have excellent communication skills	
4a	Domain Certification	Certified for Job Role: " <u>DTH Set-top Box Installer and Service Technician</u> " mapped to QP: <u>"ELE/Q8101</u> version 1.0". Minimum accepted score =70%	
4b	Platform Certification	Recommended that the Trainer is certified for the Job Role: "Trainer", mapped to the Qualification Pack: ""SSC/Q1402". Minimum accepted score =70%	
5	Experience	1-2 years of experience in installation and troubleshooting of Set Top Box and Direct to Home (DTH) systems	





Annexure: Assessment Criteria

Assessment Criteria for "DTH Set-top Box Installer and Service Technician"	
Job Role DTH Set-top Box Installer and Service Technician	
ualification Pack ELE/Q8101 version 1.0	
Sector Skill Council Electronics Sector Skills Council of India	

Sr. No.	Guidelines for Assessment
1	Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2	The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3	Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below)
4	Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on this criteria
5	To pass the Qualification Pack , every trainee should score a minimum of 70% in every NOS
6	In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack.





Sr. No.	NOS No.	NOS Name	Total Marks	Marks Allocation: Skills	Marks Allocation: Knowledge	Marks Allocation: Behaviour
1	ELE/N8105	Install and repair DTH set top box	100	65	35	
2	ELE/N9951	Interact with other employees	100	60	40	
3	ELE/N8102	Comprehend customer's requirement	100	65	35	
	Total:		300	190	110	
	Percentage W		60%	40%		
	Minimum Pass% to qualify:			70%	70%	







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