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What are Occupational Standards(OS)?

- OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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Introduction

Qualifications Pack- E Waste Collector

SECTOR: TELECOM

SUB-SECTOR: Handset/Network

OCCUPATION: E-waste Management

REFERENCE ID: TEL/Q2400

ALIGNED TO : NCO-2015/9611.0201

E waste collector in E-waste Management can also be termed as e-Waste Promoter.

Brief Job Description: Individuals at this job are responsible to collect e-waste from retailers, repair shops and other unorganized stakeholders. Also responsible for promoting the importance of e-waste management and ill effects of improper handling of the e-waste and then collecting required information. The responsibility also encompasses the transportation of the collected e-waste to the central warehouse by packaging the e-waste, labeling and maintaining the log record.

Personal Attributes: This job requires the individual to be able to communicate clearly and convince and also be able to establish rapport with all the stakeholders.

Job Details	Qualifications Pack Code	TEL/Q2400		
	Job Role	e-Waste collector		
	Credits(NSQF) [OPTIONAL]		Version number	1.0
	Sector	Telecom	Drafted on	04/08/2014
	Sub-sector	Handset/Network	Last reviewed on	08-10-2014
	Occupation	E-waste management	Next review date	10-10-2016

Job Role	e-waste collector
Role Description	The candidate in this role is primarily responsible to promote the importance of e-waste and convince the stakeholders to opt for an organized and safer ways of disposal. After convincing, he/she is supposed to collect the e-waste by proper packaging ensuring no damage during the transportation to the warehouse. Finally at the ware house the collected e-waste is segregated component wise while ensuring proper containerization and stacking. The candidate also requires knowledge on warehouse etiquettes and firefighting to avoid damage to the stored e-waste.
NSQF level	3
Minimum Educational Qualifications	Preferably 5 th Standard Pass
Training (Suggested but not mandatory)	-NIL-
Experience	-NIL-
Applicable National Occupational Standards (NOS)	Compulsory: 1. TEL/N2401 Promotion of e-waste disposal 2. TEL/N2402 Collection, transportation & storage of e-waste Optional: Not applicable
Performance Criteria	As described in the relevant OS units

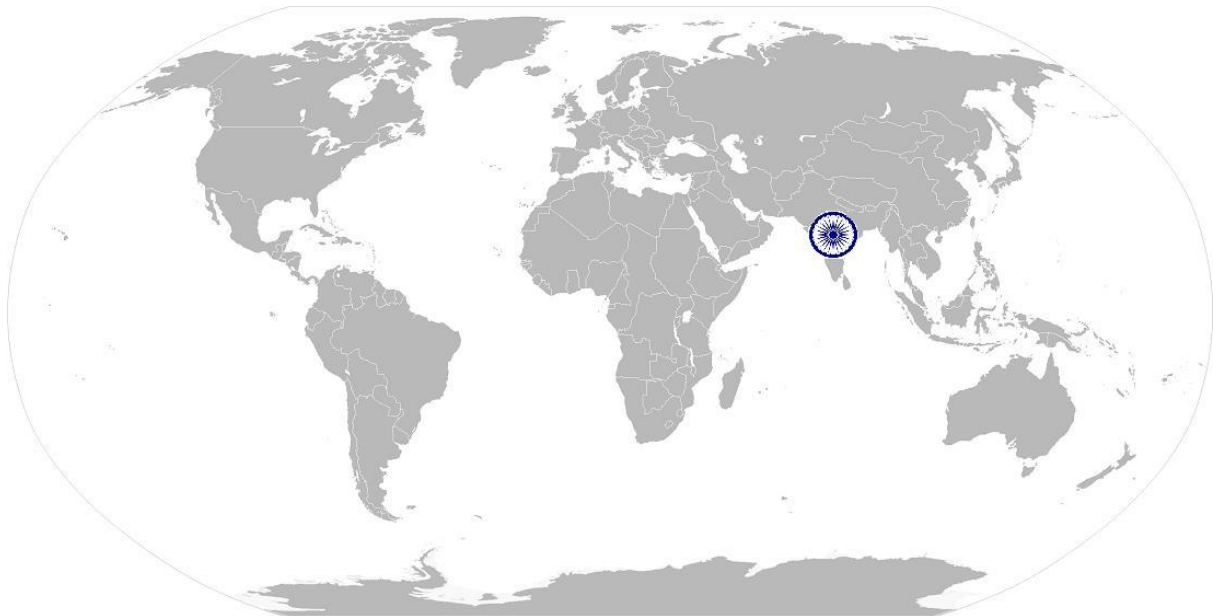
Definitions

Keywords /Terms	Description
e-Waste	'e-waste' means waste electrical and electronic equipment, whole or in part included in, but not confined to equipment listed in schedule-I and scraps or rejects from their manufacturing process, which is intended to be discarded.
Hazardous waste	Hazardous waste is waste that is dangerous or potentially harmful to our health or the environment. Hazardous wastes can be liquids, solids, gases, or sludges. They can be discarded commercial products, like cleaning fluids or pesticides, or the by-products of manufacturing processes.
Degradable waste	Degradable waste is a type of waste which can be broken down, in a reasonable amount of time, into its base compounds by micro-organisms and other living things, regardless of what those compounds may be.
Dismantling	To disassemble the old electrical and electronic products into components.
CMOS Battery	Complimentary Metal- Oxide Semi-conductor battery, Typically the Type CR2032 is a button cell battery.
NOS (National Occupational Standards)	NOS are Occupational Standards which apply uniquely in the Indian context
Occupation	Occupation is a set of job roles under which role-holders perform similar/related set of functions in an industry
OS (Occupational Standards)	OS specify the standards of performance an individual must Achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts
Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task
QP (Qualifications Pack)	Qualifications Pack comprises the set of OS, together with the Educational, training and other criteria required to perform a job role. A Qualifications Pack is assigned a unique qualification pack code
Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with, in carrying out the function which has a critical impact on the quality of performance required

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Keywords /Terms	Description
CRT	Cathode Ray Tube
CFC	Chloro Floro Carbons
HCFC	Hydro Chloro Floro Carbon
PWB	Printed Wiring board
PCB	Printed Circuit Board
LED	Light Emitting Diode
LCD	Liquid Crystal Display
EPR	Extended Producer Responsibility
BFR	Brominated Flame Retardant
CMOS	Complimentary Metal –Oxide Semi-Conductor (Type CR2032 button cell)

National Occupational Standard



Overview

This unit is about interacting with various stakeholders from where the e-waste can be collected and promoting about the importance of e-waste disposal. The candidate has to manage their time without missing the appointments while record and comprehend the information collected.

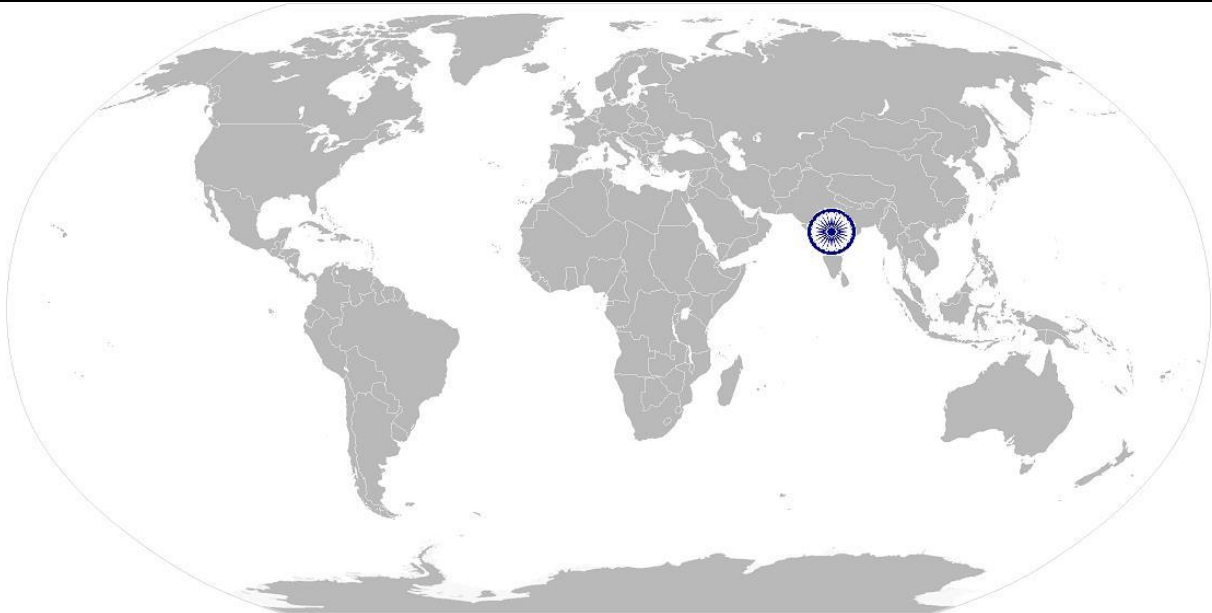
TEL/N2401

Promotion of e-waste disposal

National Occupational Standard

Unit Code TEL/N2401	
Unit Title Promotion of e-waste Disposal	
Description	This OS unit covers knowledge on e-waste management and its hazardous Effects of improper disposal. This also encompasses skill on communication and time management. By the end of the training in this OS the candidate should be able to communicate about effects of improper e-waste disposal, record, manage time and comprehend the survey conducted.
Scope	This unit/task covers the following: <ol style="list-style-type: none"> 1. identifying the stakeholders in e-waste from where the waste can be collected. 2. importance of disposal of e-waste and promoting its awareness. 3. record and comprehend the impact of awareness. 4. comprehend the survey sheet from the promotional activities.
Performance Criteria(PC) w.r.t. the Scope:	
Element	Performance Criteria
	To be competent, the user/individual on the job must be able to: PC1. interact with the stake holders such as retailers and refurbishers of IT & Telecom products and explain about the hazardous effects of improper disposal of e-waste. Inform about the best practices to be followed in order to dispose the e-waste and issue of certificate. PC2. time management without skipping the appointment. PC3. record and report the impact of the survey. PC4. comprehend the survey.
Knowledge and Understanding	
A. Organizational Context (Knowledge of the company / organization & its processes)	The user/individual on the job needs to know and understand: KA1. knowledge of occupational hazards and safety as it pertains to e-waste. KA2. knowledge about e-waste sources from where the waste can be accumulated. KA3. knowledge about conducting survey and collecting information. KA4. knowledge about the issuing a certificate once the waste is collected. KA5. record keeping & reporting
B. Technical Knowledge	KB1. understanding the ill effects of improper recycling / Treatment of E-waste. KB2. knowledge about Toxic & hazardous waste
Skills (S)	

	<p>Oral Communication (Listening and Speaking skills) & comprehending skills</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA1. communicate with customers, dealers, retailers, refurbishers, repair shops & other unorganized stakeholders to move towards organized recycling.</p> <p>SA2. comprehend the survey and understand the responses.</p> <p>SA3. basic Reading and writing skills.</p>
<p>B. Professional Skills</p>	<p>Time Management</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. manage their time without missing the appointments.</p> <p>SB2. communicating and convincing about e-waste message to the customer in short time.</p>

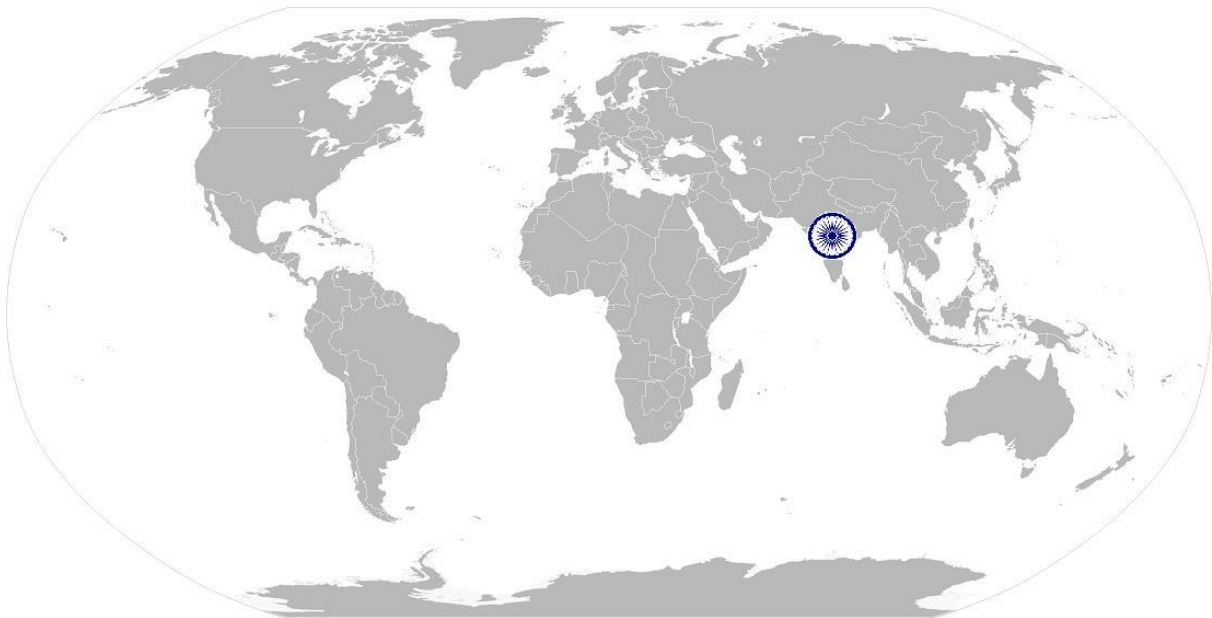


TEL/N2401

Promotion of e-waste disposal

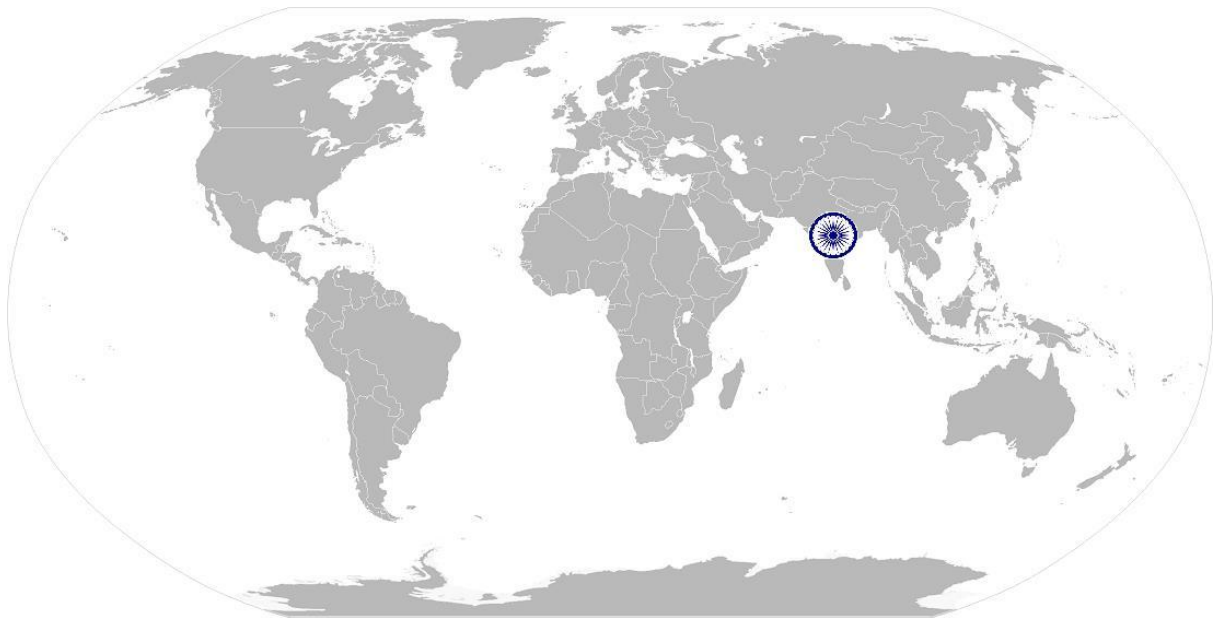
NOS Version Control:

NOS Code	TEL/N2401		
Credits(NSQF) [OPTIONAL]		Version number	1.0
Industry	Telecom	Drafted on	04/08/2014
Industry Sub-sector	Handset/Network	Last reviewed on	08-10-2014
Occupation	e-waste Management	Next review date	10-10-2016



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National Occupational Standard



Overview

This unit is about collection, safe transportation & storage of the e-waste ensuring no breakages or leakages. The candidate will learn to pack the segregated e-waste, weighing & labeling it and finally record. Training on warehouse etiquettes and basic firefighting techniques is imparted.

Unit Code	TEL/N2402
Unit Title (Task)	Collection, transportation & storage of e-waste
Description	This OS unit is about Collection, transportation & storage of e-waste. By the end of the training in this OS the candidate should be able to collect, package and store the e-waste avoiding leakages or any further damage to the collected waste while knowing the warehouse etiquettes and basic firefighting technics
Scope	This unit/task covers the following: <ol style="list-style-type: none"> 1. procedures for packaging during transportation and storage. 2. warehouse etiquettes and firefighting. 3. usage of various containers for storage and transportation. 4. recording the e-waste collected per visit.
Performance Criteria(PC) w.r.t. the Scope:	
Element	Performance Criteria
	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. manage collection from the sources in timely manner.</p> <p>PC2. Segregating product/type wise.</p> <p>PC3. ensure proper stacking, packaging /containerization (knowing which containers must be used appropriately for the type of e-waste) while ensuring physical integrity.</p> <p>PC4. ensure procedures such as weighing and labeling.</p> <p>PC5. follow warehouse etiquettes and implement firefighting techniques in case of an emergency.</p>
Knowledge and Understanding	
A. Organizational Context (Knowledge of the company / organization & its processes)	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. basic knowledge to differentiate between IT/Telecom Products.</p> <p>KA2. knowledge about ware house etiquette's, do's & don'ts of storage.</p> <p>KA3. record Keeping</p>

<p>B. Technical Knowledge</p>	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. knowledge on safe methods of transportation and packaging of collected e-waste. KB2. knowledge about the product/ type wise packaging KB3. weighing & Labeling.</p>
<p>Skills (S)</p>	
<p>A. Core Skills/ Generic Skills</p>	<p>Communication Skill</p> <p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. usage of safety equipment's in the storage area and Firefighting.</p> <p>Relationship Building</p> <p>The user/individual on the job needs to know and understand:</p> <p>SB1. communicating with all the participants in the eco-system.</p>

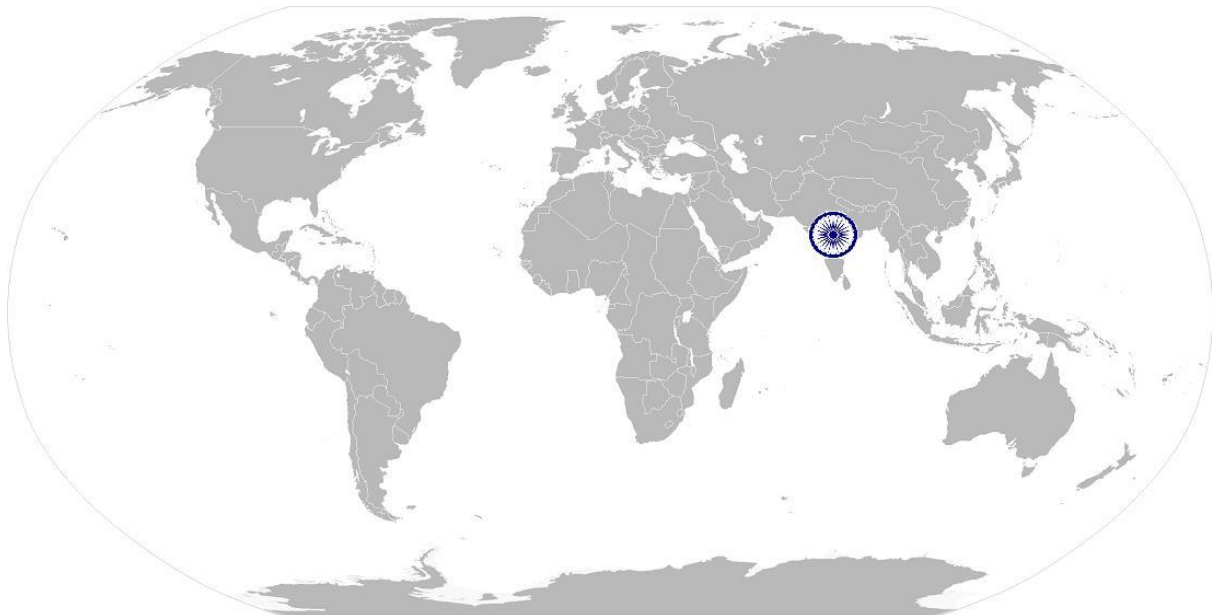


TEL/N2402

Collection, transportation & storage of e-waste

NOS Version Control:

NOS Code	TEL/N2402		
Credits(NSQF) [OPTIONAL]		Version number	1.0
Industry	Telecom	Drafted on	04-08-2014
Industry Sub-sector	Handset/Network	Last reviewed on	08-10-2014
		Next review date	10-10-2016



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PERFORMANCE CRITERIA

Job Role : e-waste collector
Qualification Pack **TEL/Q2400**
Sector Skill Council : Telecom

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 and skill practical part for each candidate at each examination/training center.
4. To pass the Qualification Pack, every trainee should score a minimum of 40% in every NOS and Overall 50% pass percentage.
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.

			Total Mark (400)	Out Of	Theory	Skills Practical
1.TEL/N2401 Promotion of e-waste disposal		PC1. Interact with the stake holders such as retailers and refurbishers of IT & Telecom products and explain about the hazardous effects of improper disposal of e-waste. Inform about the best practices to be followed inorder to dispose the e-waste and issual of certificate.	100	45	35	10
		PC2. Time management without skipping the appointment.		25	15	10
		PC3. Record and report the impact of the survey.		10	5	5
		PC4. Comprehend the survey.		20	10	10
TEL/N2402 Collection, transportation & storage of e-waste		PC1. Manage collection from the sources in timely manner.	100	10	8	2
		PC2. Segregating product/type wise.		30	10	20
		PC3. Ensure proper stacking, packaging /containerization (knowing which containers must be used appropriately for the type		30	10	20
		PC4. Ensure procedures such as weighing and labeling.		10	2	8
		PC5. Follow warehouse etiquettes and implement firefighting techniques in case of an emergency.		20	5	15