

NATIONAL COMPETENCY STANDARDS FOR TRANSMISSION AND DISTRIBUTION TECHNICIAN (NC2)

Department of Occupational Standards Ministry of Labour and Human Resources Thimphu, Bhutan. (May 2022)



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FOREWORD

The Department of Occupational Standards of the Ministry of Labour and Human Resources proudly presents the revised National Competency Standards (NCS) for Transmission and Distribution Technician as part of TVET reform initiative for improving the quality of Vocational Education and Training System in Bhutan. The standards represent the fruits of hard work and invaluable experiences gained by the department since its establishment in the latter half of 2003. The main aim of developing National Competency Standards is to set up a well-defined nationally recognized Vocational Qualification and Certification system that will help set a benchmark for the Technical Vocational Education and Training (VET) System in our country aligned to international best practices.

National Competency Standards is one of the base pillars in the Bhutan Vocational Qualification Framework (BVQF) and is the first step in its implementation. The standards are developed to ensure that employees or vocational graduates possess and acquire the desired skills, knowledge and attitude required by industries and employers. In order to ensure this close match in supply and demand of skills, knowledge and attitude, standards have been developed in close consultation and partnership with industry experts and validated by the Technical Advisory Committees for the concerned economic sectors.

A vocational education and training system based on National Competency Standards shall ensure that delivered training is of a high quality and relevant to the needs of the labour market. As a result, future TVET graduates will be better equipped to meet the need and expectations of industries and employers. This positive impact on the employability of TVET graduates will enhance the reputation of vocational education and training and make it attractive to school leavers.

While acknowledging the existing level of cooperation and collaboration, the ministry earnestly requests employers and training providers to extend the fullest support and cooperation in implementing the National Competency Standards. The ultimate objective is to build a competent and productive national workforce that will contribute to the continued socio-economic progress of our country.

I gratefully acknowledge the valuable contributions made by experts from industries during the consultation, verification and validation processes of the standards. I look forward to improved engagement and active participation of the industry and employers in the development of a quality assured demand driven TVET system in the near future.

Department of Occupational Standards, Ministry of Labour and Human Resources

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PACKAGING OF QUALIFICATIONS



Carry out Construction and Installation of Transmission Lines 7413-U5-L2

Carry out Construction and Installation of Distribution Lines 7413-U4-L2

Carry out Maintenance of Distribution Transformer 7413-U3-L2

Carry out Maintenance of Distribution lines 7413-U2-L2





OVERVIEW OF UNIT COMPETENCIES

National Certificate - Level 2

UNIT TITLE	ELEMENTS OF COMPETENCE	PAGE
Provide Service Connections to Consumers	 Inspect internal house wiring connections and fittings Provide service connections 	6
Carry Out Maintenance of Distribution Lines	 Diagnose the distribution line faults Service the distribution lines 	9
Carry Out Maintenance of Distribution Transformer	 Diagnose the distribution transformer faults Service the distribution transformer 	12
Carry Out Construction and Installation of Distribution Lines	 Install MV and LV distribution lines Lay UG cables 	17
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UNIT TITLE : Provide Service Connections to Consumers

DESCRIPTOR: This unit covers the competencies required to carry out inspection of internal house wiring connections and fittings and providing of service connections to residential, commercial and institutions.

CODE	:	7413 –U1- L2

	ENTS OF		PERFORMANCE CRITERIA
1.	Inspect internal house	1.1	Select and use <i>personal protective equipment</i> (<i>PPE</i>) as per the job requirement following standard procedures.
	wiring connection s and fittings	1.2	Select and use required tools and equipment as per the job requirement following standards procedures.
		1.3	Inspect wiring specifications and recommend for necessary action as per the job requirement following standard procedures.
		1.4	Inspect fixtures and fittings specification and recommend for necessary action as per the job requirement following standard procedures.
		1.5	Conduct insulation resistance test and take necessary action as per the job requirement following standard procedures.
		1.6	Conduct earthing test and take necessary action as per the job requirement following standard procedures.
2.	Provide service connecti	2.1	Select and use required tools and equipment as per the job requirement following standard procedures.
	ons	2.2	Install service lines as per the job requirement following standard procedures.
		2.3	Install energy meter as per the job requirement following standard procedures.

RANGE STATEMENT

Tools and equipment may include but not limited to conducting:

- IR (Insulation Resistance) tester
- Earth tester

- Multi meter
- Clamp-on-meter
- IPC (insulation piercing connector)
- Digital Energy meter

Personal protective equipment (PPE) may include but not limited to:

Hand gloves

Safety shoes

Reflector vestSafety belt

- Safety Goggles
- Helmet

Critical aspects:

- Demonstrate safe working practices at all times in accordance with OHS regulations.
- Carryout IR test following standards procedure.
- Carryout earthing test following standards procedure.
- Provide service connection to consumers.

UN	IDERPINNING KNOWLEDGE		UNDERPINNING SKILLS
•	Ethics and Integrity	•	Team work
•	Basic first aid	•	Negotiation
•	Meter reading	•	Communication skills
•	Basic Billings	•	Problem solving
•	Types of energy meter	•	Analytical Skills
•	Household fixtures and fitting specification	•	Time Management
•	Occupational health and safety regulations		
•	Safety signs and symbols		
•	Wiring knowledge		
•	Basics of switch gear		

UNIT TITLE : Carry out Maintenance of Distribution Lines

DESCRIPTOR: This unit covers the competencies required to carry out diagnosis of distribution line faults and servicing of distribution lines.

CODE	-	7413- U2-L2
CODL	-	

ELEMENTS OF COMPETENCE		PERFORMANCE CRITERIA
1. Diagnose the distribution	1.1	Select and use <i>personal protective equipment</i> (<i>PPE</i>) as per the job requirement following standard procedures
line faults	1.2	Select and use required <i>diagnostic tools and equipment</i> as per the job requirement following standard procedures.
	1.3	Troubleshoot the distribution line to identify the <i>faults</i> as per the job requirement following standard procedures.
2. Service the distribution lines	2.1	Select and use <i>service tools and equipment</i> as per the job requirement following standard procedures.
	2.2	Prepare estimates of <i>materials</i> (conductors, poles & fittings, insulators, connectors, clamps, nuts and bolts, jointing and termination kits) as per the job requirement following standard procedures.
	2.3	Prepare materials as per the job requirement following standard procedures.
	2.4	Repair the faulty components as per job requirement following standard procedures.
	2.5	Replace the <i>faulty components</i> as per job requirement following standard procedures.
	2.6	Test the distribution lines as per the job requirement following standard procedures.
	2.7	Document the records as per the job requirement following standard procedures.

RANGE STATEMENT	
Personal protective equipment n	nay include but not limited to:
Hand gloves	Safety shoes
Helmet	Safety Goggles
Proximity sensor	Safety belt
Reflector vest	
Diagnostic tools and equipment	may include but not limited to:
 Insulation Resistance (IR)tester Multi meter Discharge rods/clamps 	Hot stick tester (online tester)Fault locator
Faults may include but not limite	ed to:
BreakagesLeakagesDisc/pin insulator puncture	 Conductor snapping Lightening Arrester failure
Service tools and equipment ma	y include but not limited to:
Wrench set	Measuring tape
Cable Cutter	Spirit level
Crimping Tools	Spade
Max Puller	Crowbar
Rope	Pulley
Block and tackle	Come-along
Faulty components may include	but not limited to:
Conductor	Poles
Insulator	Fuses
Switches	Connectors

Critical aspects:

- Demonstrate safe working practices at all times in accordance with OHS regulations.
- Troubleshoot to identify the faults.

UNDERPINNING KNOWLEDGE	UNDERPINNING SKILLS
• Ethics and Integrity	Team work
Basic First Aid	Negotiation
• Types of faults	Communication skills
Types of conductors	Problem solving
Distribution system/ networks	Analytical Skills
 Electrical signs, symbols and circuits. 	Time Management
 Electricity supply rules and regulations 	
Basics of switch gear	

UNIT TITLE : Carry out Maintenance of Distribution Transformer

DESCRIPTOR: This unit covers the competencies required to carry out diagnosis of distribution transformer faults and servicing of distribution transformer.

CODE : 7413 – U3- L2

ELEMENTS OF COMPETENCE		PERFORMANCE CRITERIA
1. Diagnose the distribution transformer	1.1	Select and use <i>personal protective equipment</i> (<i>PPE</i>) as per the job requirement following standard procedures
faults	1.2	Select and use <i>diagnostic tools and equipment</i> as per the job requirement following standard procedures
	1.3	Troubleshoot the distribution transformer to identify the <i>faults</i> as per the job requirement following standard procedures.
2. Service the distribution transformer	2.1	Prepare and place safety signs and symbols as per the job requirement following standard procedures.
	2.2	Select and use <i>service tools and equipment</i> as per the job requirement following standard procedures.
	2.3	Prepare estimates of <i>materials</i> as per the job requirement following standard procedures.
	2.4	Prepare materials as per the job requirement following standard procedures.
	2.5	Repair the faulty distribution transformer components as per the job requirement following standard procedures.
	2.6	Replace the faulty components as per job requirement following standard procedures.
	2.7	Top up transformer oils as per the job

	requirement following standard procedures.
2.8	Test the distribution transformer as per the job requirement following standard procedures.
2.9	Document the record as per the job requirement following standard procedures.

RANGE STATEMENT	
Personal protective equipment m	nay include but not limited to:
 Hand gloves Safety belts Proximity sensor Reflector sensor Diagnostic tools and equipment mages of the sensor of the sen	Ratio testermicro-ohm meter
 Faults may include but not limite Winding Short/Open Circuit Deterioration Of Breather 	
 Materials may include but not lin Transformer oil Silica Gel Bushing Arching horns Laminated sheets 	 Nuts and bolts/washers Gaskets Fuse Enamel Copper wires LV/HV studs Oil seal
 Faulty components may include Bushing Breather Arcing horns Winding Core 	 but not limited to: Nuts and bolts Fuse Gasket LV/HV studs

Critical aspects:

- Demonstrate safe working practices at all times in accordance with OHS regulations.
- Troubleshoot to identify the distribution transformer faults
- Carryout the maintenance of distribution transformer.

UNDERPINNING KNOWLEDGE	UNDERPINNING SKILLS
 Ethics and Integrity Basic first aid Components of distribution transformer Working principle of distribution transformer Fuse ratings Types of transformer faults Types of transformer testing Basics of switch gear 	 Team work Negotiation Communication skills Problem solving Analytical Skills Time Management

UNIT TITLE : Carry out Construction and Installation of Distribution Lines

DESCRIPTOR: This unit covers the competencies required to carry out construction and installation of MV (6.6kV, 11kV and 33kV) and LV (230V and 415V) overhead and underground distribution lines.

CODE : 7413-U4-L2

ELEMENTS OF COMPETENCE	PERFORMANCE CRITERIA			
1. Install MV and LV distribution	1.1 Identify the route for construction and insta of distribution lines as per the job requi following standard procedures.			
lines	1.2	Select and use required tools and equipment as per the job requirement.		
	1.3	Select and use required PPE as per the job requirement.		
	1.4	Prepare foundations for erection of poles as per the job requirement following standard procedures.		
	1.5	Prepare and erect the poles as per the job requirement following standard procedures.		
	1.6	Fit the pole accessories and hard ware fittings as per the job requirement following standard procedures.		
	1.7	Provide spike earthing as per the standard procedures.		
	1.8	Prepare the conductors as per the job requirement following standard procedures.		
	1.9	String the conductors as per the job requirement following standard procedures.		
	1.10	Fit gang operating switch (GO)/Ring main unit (RMU) as per the job requirement following		

		standard procedures.
	1.11	Test the lines as per the job requirement following the standard procedures.
2. Lay UG cables	2.1	Identify the routes for laying of UG cables as per the job requirement following standard procedures.
	2.2	Select and use required tools and equipment as per the job requirement.
	2.3	Select and use required PPE as per the job requirement.
	2.4	Prepare cable trench as per the job requirement following standard procedures.
	2.5	Prepare and lay UG cables as per the job requirement following standard procedures.
	2.6	Perform cable jointing as per job requirement following standard procedures.
	2.7	Perform cable termination and earthing as per the job requirement following the standard procedures.
	2.8	Provide earthing as per the job requirement following the standard procedure
	2.9	Test the UG cables as per the job requirement following standard procedures.

RANGE STATEMENT

Personal protective equipment may include but not limited to:

- Hand gloves
- Safety belts
- Helmet
- Tools and equipment may include but not limited to:
- Pliers
- Wrench
- Screw driver
- Knife
- Crimping tools
- Spade
- Cable cutter
- Max puller
- Come-along-clamp
- Turn table

Pole accessories may include but not limited to:

- Cross brace and arms
- Insulators
- Single cross arms
- H- frame
- Label plate
- Top hamper
- Spike earthing

- Stay sets
- Anti-climbing device
- Danger name plate
- Strain clamps
- Suspension clamps
- Hook bolts/brackets
- IPC (Insulation piercing connector)

- crowbar
- pulley
- rope
- insulation remover
- IR tester
- Ladder
- Shovel
- Pickaxe
- Shrinking torch
- Torch

Safety harness

Safety shoes

Safety Goggles

Critical aspects:

- Demonstrate safe working practices at all times in accordance with OHS regulations.
- Stringing of conductors.
- Laying of underground cables.
- Perform cable jointing and terminations.

UNDERPINNING KNOWLEDGE	UNDERPINNING SKILLS
 Ethics and integrity Types of conductors Distribution system/ networks Electrical signs, symbols and circuits Types of UG cables Types of cable joints and terminations (Hot and cold shrink) 	 Team work Negotiation Communication skills Problem solving Analytical Skills Time Management
Types of rope knots	
Basics of switch gear	

UNIT TITLE : Carry out Construction and Installation of Transmission Lines

DESCRIPTOR: This unit covers the competencies required to carry out construction of transmission tower and installation of transmission lines (66kV and above).

CODE	:	7413-U5-L2

ELEMENTS OF COMPETENCE		PERFORMANCE CRITERIA
1. Construct transmissi on tower	1.1	Identify the locations for construction of transmission tower as per the job requirement following standard procedures.
	1.2	Select and use required <i>tools and equipment</i> as per the job requirement.
	1.3	Select and use required PPE as per the job requirement following standard procedures.
	1.4	Prepare tower foundations as per the job requirement following standard procedures
	1.5	Fit <i>tower accessories</i> and fittings as per the job requirement following standard procedures.
	1.6	Provide earthing as per the standard procedures.
	1.7	Test the earthing as per the job requirement following standard procedures
2. Install Transmission Lines	2.1	Prepare corridor/ right of way (ROW) as per the job requirement following standard procedures.
	2.2	Prepare materials as per the job requirement following standard procedures.
	2.3	Fit the tower accessories as per the job requirement following standard procedures.
	2.4	Perform stringing of the conductors as per the job requirement following standard procedures.
	2.5	Provide overhead ground wire and earthing connections as per the job requirement

	following standard procedures.
2.6	Test the lines as per the job requirement following standard procedures.

RANGE STATEMENT	
Tools and Equipment may inc	clude but not limited to:
Wrench set	Roller
Pliers	Sling
 Knife and Power chain 	Derrick pole
Screw driver	Winch machine
Max puller	Dummy wrench
Come-along-clamp	Hydraulic compressor
Hack saw	 Tower setting template
Conductor cutter	 Adjustable jack
Spirit level	 Sagging bridge
Pulley	 Line signature analyzer
Rope	IR tester
Earth tester	Measuring tape
PPE may include but not limit	ted to:
Safety Gloves	Safety belts
Safety Helmet	Safety Goggles
Safety shoes	
Tower Accessories and fitting	s may include but not limited to:
Dead end fittings	Tension plate
Tower members	Phase plate
Anti-climbing device	 Location number plate
 Insulators 	Danger plate
Vibration damper	Arching horn
Lightning arrester	Jumper cone
-	

Critical aspects applicable to these unit:

- Demonstrate safe working practices at all times in accordance with OHS regulations.
- Erect the tower and string the conductors.

UNDERPINNING KNOWLEDGE	UNDERPINNING SKILLS			
• Ethics and integrity	Communication			
Types of conductors	Negotiation			
Types of transmission Towers	Team work			
Electrical signs, symbols and circuits	Problem Solving			
Components of transmission towers	Time Management			
Types of rope knots	Critical thinking			
Basics of switch gear	Innovative thinking			
Sag calculations				

UNIT TITLE : Carry out Maintenance of Transmission Lines

DESCRIPTOR: This unit covers the competencies required to carry out offline maintenance of transmission lines which includes diagnosis of transmission line faults and restoration of transmission lines.

CODE : 7413-U6-L2

ELEMENTS C		PERFORMANCE CRITERIA
1. Diagno the transmi	1.1	Select and use required PPE as per the job requirement following standard procedures.
on line faults.	1.2	Select and use required <i>diagnostic tools and</i> <i>equipment</i> as per the job requirement following standard procedures.
	1.3	Collect fault data from sub-station as per the job requirement.
	1.4	Identify the <i>faults</i> and troubleshoot the transmission line as per the job requirement following standard procedures.
2. Perforn restora of	21	Select and use required PPE as per the job requirement following standard procedures.
transm on lines		Select and use tools and equipment as per the job requirement following standard procedures.
	2.3	Prepare estimates of materials as per the job requirement following standard procedures.
	2.4	Prepare materials as per the job requirement following standard procedures.
	2.5	Repair the faulty components as per job requirement following standard procedures.
	2.6	Replace the faulty components as per job requirement following standard procedures.
	2.7	Test the transmission lines as per job requirement following standard procedures.

2.8	Document requiremer			

RANGE STATEMENT	
Diagnostic Tools and Equipme	ent may include but not limited to:
 Insulation Resistance (IR) tester Line signature analyzer 	Offline fault locator
PPE may include but not limite	ed to:
 Safety Gloves Safety Helmet Safety shoes Faults may include but not limed to the second	 Safety belts Safety Goggles
 Breakage of conductors Insulator puncture/flash ove Short circuits Tools and equipment may incl 	
 Wrench set Pliers Knife and Power chain Screw driver Max puller Come-along-clamp Hack saw Conductor cutter Pulley Rope Earth tester Faulty components may included	 Roller Wire rope Sling Ridging sling Winch machine Hydraulic compressor Sagging bridge Line signature analyzer Discharging rod Measuring tape IR tester
ConductorsInsulatorsHardware Fittings	Tower membersClamps

Critical aspects applicable to these unit:

- Demonstrate compliance with safety regulations applicable to work site operations.
- Identify and troubleshoot the transmission lines faults.

UNDERPINNING KNOWLEDGE	UNDERPINNING SKILLS
Ethics and Integrity	Communication
Types of conductors	Negotiation
Basic First Aid	Team work
Transmission system/ networks	Problem Solving
Types of transmission Towers	Time Management.
Electrical signs and symbols	Critical thinking
Components of transmission towers	Innovative thinking
Sag calculations	
Types of rope knots	
Types of faults	

Annexure

1.1 National Competency Standards (NCS)

National Competency Standards specify the skill, knowledge and attitudes applied to a particular occupation. Standards also specify the standards or criteria of performance of a competent worker and the various contexts in which work may take place. Standards provide explicit advice to assessors regarding the skill and knowledge to be demonstrated by candidates seeking formal recognition either following training or through work experience.

1.2 Purpose of National Competency Standards

Competency Standards serve a number of purposes including:

- Providing advice to curriculum developers about the skill and knowledge to be included in curriculum.
- Providing specifications to assessment resource developers about the skill, knowledge and attitudes within an occupation to be demonstrated by candidates.
- Providing advice to industry/employers about job functions, which in turn can be used for the development of job descriptions, performance appraisal systems and work flow analysis.

1.3 Bhutan Vocational Qualifications Framework (BVQF)

Bhutan Vocational Qualifications Framework is an agreed system of Assessing, Certifying and Monitoring nationally recognized qualifications for all learning in the VET sector against national standards, in training institutions, in the workplace, in schools or anywhere where learning takes place.



Components of the Bhutan Vocational Qualification Framework (BVQF)

* RPL = Recognition of Prior Learning

1.4 BVQF Levels

The Bhutan Vocational Qualifications Framework has three levels classified based on the competency of the skilled workers. The three levels are:

- National Certificate Level 3 (NC 3)
- National Certificate Level 2 (NC 2)
- National Certificate Level 1 (NC 1) -Semi Skilled Worker

BVQF Level Descriptors

The qualification levels are decided based on level descriptors. The detail of the qualification level descriptor is as follows:

National Certificate Level 1 (Semi skilled)

Carry out processes that:	Learning demand:	Responsibilities Which are applied:
 Are narrow in range. Are established and familiar. Offer a clear choice of routine responses. Involve some prioritizing of tasks from known solutions. 	 Basic operational knowledge and skill. Utilization of basic available information. Known solutions to familiar problems. Little generation of new ideas. 	 In directed activity. Under general supervision and quality control. With some responsibility for quantity and quality. With no responsibility for guiding others.

- -Master Craftsman
 - -Craftsman

National Certificate Level 2 (Craftsman)

Carry out processes that:	Learning demand:	Responsibilities which are applied:
 Require a range of well-developed skills. Offer a significant choice of procedures requiring prioritization. Are employed within a range of familiar context. 	 Some relevant theoretical knowledge. Interpretation of available information. Discretion and judgment. A range of known responses to familiar problems 	 In directed activity with some autonomy. Under general supervision and quality checking. With significant responsibility for the quantity and quality of output. With some possible responsibility for the output of others.

National Certificate Level 3 (Master Craftsman)

Carry out processes that:	Learning demand:	Responsibilities which are applied:
 Requires a wide range of technical or scholastic skills. Offer a considerable choice of procedures requiring prioritization to achieve optimum outcomes. Are employed in a variety of familiar and unfamiliar contexts. 	 A broad knowledge base which incorporates some theoretical concepts. Analytical interpretation of information. Informed judgment. A range of sometimes innovative responses to concrete but often unfamiliar problems. 	 In self-directed activity. Under broad guidance and evaluation. With complete responsibility for quantity and quality of output. With possible responsibility for the output of others.

1.5 CODING USED FOR NATIONAL COMPETENCY STANDARDS

The coding and classification system developed in Bhutan is logical, easy to use, and also aligned with international best practices. The Bhutanese coding and classification system is based on the International Standard Classification of Occupations, 2008 (ISCO-08) developed by the International Labour Organisation (ILO).

The coding of the National Competency Standards forms the basis of the identification code for the Vocational Education and Training Management Information System (VET – MIS) both in terms of economic sector identification and that of the individual standard.

Coding the individual unit competency standard is to identify the level in qualification package to which it belongs.

While packaging, in order to follow a logical order, only competency standards related to each other and following a logical sequence in terms of training delivery, from the simple to the complex, are clustered into a qualification package.

1.6 ASSESSMENT GUIDE

Form of assessments

- Continuous assessment together with collected evidence of performance will be used.
- Evidence of the performance shall be based on practical demonstration.
- Knowledge can be assessed through diagrams, in writing or orally (viva-voce).

Assessment context

• Competency may be assessed in the actual work place or in a simulated workplace setting.

Assessment condition

- The candidate shall have access to all required tools, equipment, materials and documents.
- Candidate must complete the assessment in industry accepted time frame.



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