

# NATIONAL COMPETENCY STANDARDS FOR PLUMBER (NC2 &NC3)

Department of Occupational Standards Ministry of Labour and Human Resources Thimphu Bhutan (July 2020)



# NATIONAL COMPETENCY STANDARDS FOR PLUMBER (NC2 & NC3)

Department of Occupational Standards Ministry of Labour and Human Resources Thimphu Bhutan (July 2020)

First Publication 2009 First Revision 2012 Second Revision 2016 Third revision 2020 © Department of Occupational Standards (DOS), MoLHR

## Foreword

The Department of Occupational Standards of the Ministry of Labour and Human Resources is pleased to present the National Competency Standards (NCSs) for Plumber. 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 NCS is to set up a well-defined nationally recognized Vocational Qualifications System that will help set a benchmark for the Technical Vocational Education and Training (TVET) System in our country aligned to international best practices.

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

A vocational education and training system based on NCS 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.

I gratefully acknowledge collaboration and the valuable contributions made by experts from industries during the consultation and validation processes of the standards. I look forward for continued engagement and participation of the industry and employers in the development of a quality assured demand driven TVET system and to build competent and productive national workforce that will contribute to the continued socio-economic progress of our country.

Director Department of Occupational Standards Ministry of Labour and Human Resource

## Acknowledgement

#### NATIONAL COMPETENCY STANDARDS FOR PLUMBER

Validation date : 20/07/2020

Endorsement date: 20/07/2020

Date of Review : 20/07/2023 (Max. 3 years)

# Technical Advisory Committee (TAC) members for the Construction Sector involved in the validation of NCS:

- 1. Ichharam Dulal (chairperson), Mawongpa water solution, Thimphu
- 2. Karma Loday, (Member Secretary), specialist, DOS, Thimphu
- 3. Sangay Dorji, JWPTI, Gelephu
- 4. Karma Dorji, DTE, MoLHR, Thimphu
- 5. Ugyen Samdrup, TTI-Chumey, Bumthang
- 6. Sangay Dorji TTI-Chumey Bumthang
- 7. Karma Phuntsho, JWPTI, Gelephu
- 8. Indradal Gurung, NHDCL, Thimphu

#### Packaging of Qualifications for Plumber



#### **OVERVIEW OF UNIT COMPETENCIES**

SI.	UNIT TITLE		ELEMENTS OF COMPETENCE
1.	Carryout installation of internal domestic water	1.	Install water pipes and Chrome Plated(CP) fittings
	supply system and sanitary fixtures	2.	Lay soil and waste pipe and fittings
		3.	Install sanitary fixtures and fitting
		4.	Install water based floor radiant heating system
		5.	Install water tanks and pumps
		6.	Repair plumbing system
2.	2. Carryout installation of external water supply system	1.	Lay external pipelines and valves
		2.	Repair plumbing system
		3.	Conduct operation and maintenance of water intake and treatment plant
3.	3. Carryout installation of main sewer system	1.	Install sewer lines
		2.	Install chambers and manholes
		3.	Conduct operation and maintenance of sewerage treatment plant
4.	<ol> <li>Carryout installation of advanced sanitary and bathroom fixtures</li> </ol>	1.	Install advanced sanitary fixtures
		2.	Install cubicle shower
		3.	Install advanced sanitary fixtures with sensors

UNIT TITLE	:	Carryout installation of internal domestic water supply system and sanitary fixtures
DESCRIPTOR	:	This unit covers the competencies required to carry out installation of domestic water supply system and sanitary fixtures following health and safety procedures

#### CODE : 7126 - U1- L2

ELEMENTS OF COMPETENCE	PERFORMANCE CRITERIA
1. Install water pipes and Chrome	1.1 Interpret drawing and specifications as per the job requirement.
Plated(CP) fittings	1.2 Select and use <i>tools and equipment</i> as per the job requirement.
	1.3 Select and use required <b>PPE</b> as per the job requirement.
	1.4 Select <i>materials</i> as per the job requirement following standard procedures
	1.5 Perform <i>pipe joint</i> as per the job requirement following standard procedures
	1.6 Lay pipes and fittings as per the job requirement following standard procedures
	1.7 Perform installation of <i>CP fittings</i> as per the job requirement following standard procedures
	1.8 Perform test of the installation following standard procedures
2. Lay soil and waste pipe and	2.1 Interpret drawing and specifications as per the job requirement.
nungs	2.2 Select and use <i>tools and equipment</i> as per the job requirement.
	2.3 Select and use required <b>PPE</b> as per the job requirement
	2.4 Select materials as per the job requirement following standard procedures

		<ul> <li>2.5 Perform <i>soil and waste pipe joint</i> as per the job requirement following standard procedures</li> <li>2.6 Lay soil and waste pipes and <i>fittings</i> as per the job requirement following standard procedures</li> </ul>
3.	Install sanitary fixtures	3.1 Interpret drawing and specifications as per the job requirement.
		3.2 Select and use tools and equipment as per the job requirement.
		3.3 Select <i>materials</i> as per the job requirement following standard procedures
		3.4 Perform installation of sanitary fixtures as per the job requirement following standard procedures
		3.5 Perform test of installation following standard procedures
4. Install water based floor		4.1 Interpret drawing and specifications as per the job requirement.
	radiant heating system	4.2 Select and use <i>tools and equipment</i> as per the job requirement.
		4.3 Select <i>materials</i> as per the job requirement following standard procedures
		4.4 Install hot water pressure pumps following standard procedures
		4.5 Perform installation of water based floor radiant heating system following standard procedures
	4.6	4.6 Perform test of installation following standard procedures
5.	Install water tanks and pumps 5.2 5.3	5.1 Interpret drawing and specifications as per the job requirement.
		5.2 Select and use required tools and equipment according to job requirements
		5.3 Select and use required PPE as per the job requirement.
		5.4 Select the location for installation of water tank as per the job requirement.

	5.5 Prepare the base as per the job requirement following standard procedures
	5.6 Fix the tank components as per the job requirement following standard procedures
	5.7 Perform installation of <i>water tank</i> as per the drawing following standard procedures.
	5.8 Select the size of <i>water pump</i> as per the job requirement
	5.9 Perform installation of water pump as per the specifications and manufacturers' manual following standard procedures
	5.10 Conduct functionality test of the installation as per the standard procedures.
6. Repair	6.1 Diagnose the <i>faults</i> following standard procedures
system	6.2 Select and use required tools and equipment according to job requirements
	6.3 Select and use required PPE as per the job requirement.
	6.4 Select materials as per the job requirement following standard procedures
	6.5 Perform <i>maintenance</i> (replace and repair) of plumbing system following standard procedures
	6.6 Conduct functionality test of repaired plumbing system as per the standard procedures.

# RANGE STATEMENT

# Materials may include but not limited to:

- G.I pipe
- CPVC

- Pex pipe
- HDPE

• PPR

Tools and Equipment may include b	but not limited to:	
Measuring tape	Cutter or hacksaw	
Monkey wrench	Hammer	
Pipe wrench	Spirit level or water level	
Chain wrench	Drilling machine	
Reamer	Pipe vice	
Blow lamp	Adjustable wrench	
Heating plate	Plumb bob	
Chalk	Die set or ratchet	
• Pipe	Chisel	
Pressure testing equipment	• Files	
	Screw driver	
PPE may include but not limited to:		
Gloves	Ear muff	
• Helmet	Dust mask	
Safety shoes	Safety belt	
Goggles		
Pipe Joint may include but not limited to:		
Cutting	Reaming	
Threading	Jointing	
CP fittings may include but not limited to:		
• Diverter	Sink mixture	
Concealed stop cock	Angle valve	
Wall mixture	Shower head	

Soil and Waste pipe joint may include but not limited to:		
Cutting	• Jointing	
Reaming		
Fittings may include but not limited	to:	
Multi-floor-trap	Bend	
bottle trap	• Tee	
Nahani Trap	Reducer	
Materials for sanitary fixtures may include but not limited to:		
Wash basin	• Sink	
• WC pan	• Bidet	
Urinal	P-trap	
Bathtub	• S-Trap	
Geyser	• Q-Trap	
Fire water sprinkle		
Material for heating system may include but not limited to:		
Stainless steel	Pex Pipe	
• CPVC	• PPR	
Water tank may include but not limited to:		
SS tank	Zincalume	
• PVC		
Water pump may include but not limited to:		
Submersible	Centrifugal	
Rotary		
1 1		

# Faults may include but not limited to: • Leakage • Blockage Critical aspects: • Demonstrate compliance with safety regulations applicable to work site operations • Carryout installation of internal domestic water supply system and sanitary

fixtures following safety procedures

UNDERPINNING KNOWLEDGE	UNDERPINNING SKILLS
Ethics and Integrity	Team work
Estimation and costing	Communication skills
Pipe Sizes	Planning
Plumbing code of practice	House keeping
• Type of water distribution	Time management
<ul> <li>Pipe fitting and valve catalogues</li> </ul>	<ul> <li>Negotiation</li> </ul>
Types of valves and pumps	
Causes and remedies of maintenance	
• Types of tools and equipment	
Basic technical calculations	
Basic hydraulics (flow of water through pipes)	
• Different types of water tanks	
Water based radiant floor heating system	
Jointing compounds	
Plumbing signs and symbols	

UNIT TITLE :		Carryout installation of external water supply system
DESCRIPTOR	:	This unit covers the competencies required to carry out installation of external water supply system following standard procedures

ELEMENTS OF COMPETENC	PERFORMANCE CRITERIA
<ol> <li>Laying of external pipelines and valves</li> </ol>	1.1 Interpret drawing and specifications as per the job requirement.
	1.2 Select and use required <b>tools and</b> <b>equipment</b> as per the job requirements
	1.3 Select and use required <i>PPE</i> as per the job requirements
	1.4 Prepare trenches and bedding to the required sizes as per the job requirement following standard procedures.
	1.5 Lay pipes and fittings for main and distribution lines as per the job specification and design layout following standard procedures.
	1.6 Join the pipes and fittings as per the standard procedures.
	1.7 Perform connection to reservoir and break pressure tank as per the standard procedures.
	1.8 Backfill the trenches as per the job requirement following standard procedures.
	1.9 Fix <i>valves</i> and water meter as per the standard procedures.
	1.10 Conduct test and take necessary action as per the job requirement following standard procedures.
2. Repair plumbing	2.1 Diagnose <i>faults</i> (leakage, blockage) as per

system	the job requirement following standard procedures.
	2.2 Repair the defective pipe and fittings as per the job requirement following standard procedures.
	2.3 Replace the defective pipe and fittings as per the job requirement following standard procedures.
	2.4 Conduct functional test of the repaired plumbing system as per the job requirement
3. Conduct operation and maintenance of water intake and	3.1 Interpret drawing and specifications as per the job requirement.
treatment plant	3.2 Select and use <i>tools and equipment</i> as per the job requirements
	3.3 Select and use required <i>PPE</i> as per the job requirements
	3.4 Clean and remove <i>foreign materials</i> from the treatment plant as per the job requirement following standard procedures
	3.5 Back wash the water filter as per the treatment plant manual following standard procedures.
	3.6 Service <i>water treatment units</i> as per the job requirement following standard procedures.
	3.7 Perform water quality test and add alum following standard procedures
	3.8 Disinfect the water as per the treatment plant manual
	3.9 Record the data and regulate the raw water flow and treated water flow as per the standard procedures

#### **RANGE STATEMENT**

## Valves may include but not limited to:

- Gate valve
- Glove valve
- Non-return valve
- Butterfly valve

- Pressure release valve
- Scour valve
- Float valve

# Tools and Equipment may include but not limited to:

- Measuring tape
- Monkey wrench
- Pipe wrench
- Chain wrench
- Reamer
- Blow lamp
- Heating plate and chalk
- Pipe cutter or hacksaw
- Hammer

- Spirit level
- Dumpy level
- Electric drill
- Pipe vice
- Adjustable wrench
- Plumb bob
- Die set
- Chisel
- File
- Screw driver

Far muff

Dust mask

Safety belt

#### PPE may include but not limited to:

- Gloves
- Helmet
- Safety shoes
- Goggles

#### Foreign materials may include but not limited to:

Leaves

Debris

Sticks

# Water treatment units may include but not limited to:

• Mixing chamber

• Filter tank

• Sedimentation tank

Coagulation tank

UN	IDERPINNING KNOWLEDGE		UNDERPINNING SKILLS
•	Ethics and Integrity	٠	Team work
•	V-notch calculation	٠	Communication skills
•	Type of water distribution	٠	Planning
	system	•	Problem solving
•	Pipe fitting and valves catalogues		
•	Working principle of water treatment plant		
•	Types of water treatment solutions		
•	Ratio of chemicals to water		

UNIT TITLE	:	Carryout installation of main sewer system
DESCRIPTOR	:	This unit covers the competencies required to carry out installation of main sewer system following standard procedures

CODE :		7126-U3- L3		
	ELEMENTS OF COMPETENCE		PERFORMANCE CRITERIA	
1.	Install sewer lines	1.1	Interpret drawing and specifications as per the job requirement.	
		1.2	Select and use tools and equipment as per the job requirements	
		1.3	Select and use required <i>PPE</i> as per the job requirements	
		1.4	Select <i>materials</i> as per the job requirement following standard procedures	
		1.5	Perform installation of sewer lines following standard procedures	
		1.6	Perform maintenance of sewer lines as per the job requirement following standard procedures	
		1.7	Perform test of sewer lines following standard procedures	
2.	Install chamber and manholes	2.1 In jo	terpret drawing and specifications as per the b requirement.	
		2.2 S th	elect and use <i>tools and equipment</i> as per the job requirements	
		2.3 S re	elect and use required <b>PPE</b> as per the job equirements	
		2.4 S fc	elect <i>materials</i> as per the job requirement illowing standard procedures	
		2.5 P	erform installation of chambers and manholes	

		following standard procedures
		2.6 Perform test chambers and manholes following standard procedures
3.	Conduct operation and maintenance of sewerage treatment plant3.1 jot2.12.22.3	3.1 Select and use <i>tools and equipment</i> as per the job requirements
		2.1 Select and use required <b>PPE</b> as per the job requirements
		2.2 Perform operation of sewerage treatment plant following standard procedures
		2.3 Perform maintenance of sewerage treatment plant as per the job requirement following standard procedures

#### **RANGE STATEMENT**

#### Sewer Materials may include but not limited to:

- Pipes and fittings
- HDPE
   Concrete pipe

#### Tools and Equipment may include but not limited to:

- Measuring tape
- Monkey wrench
- Pipe wrench
- Chain wrench
- Reamer
- Blow lamp
- Heating plate
- Chalk
- Pipe

- Cutter or hacksaw
- Hammer

**PVC** 

- Spirit level or water level
- Drilling machine
- Pipe vice
- Adjustable wrench
- Plumb bob
- Die set or ratchet
- Chisel
- Files
- Screw driver

#### PPE may include but not limited to:

- Gloves
- Helmet
- Safety shoes
- Goggles

- Ear muff
- Dust mask
- Safety belt

#### Chambers and manhole materials may include but not limited to:

• PVC chamber

- Hume Pipes
- Pre-cast RCC
   Cast Iron

#### **Critical Aspects:**

- Demonstrate compliance with safety regulations applicable to work site operations
- Carryout installation of main sewer system following standard procedures

UN	DERPINNING KNOWLEDGE	UNDERPINNING SKILLS
•	Ethics and Integrity	Communication skills
• • • •	Types of sewerage treatment plant Functions of septic tank Types of septic tank Functions of Soak pit Functions of chambers and manholes	<ul> <li>Team work</li> <li>Planning</li> <li>Problem Solving</li> <li>Time management</li> </ul>
•	Benching of chambers and manholes	
•	Importance of gradient in sewer line	
•	Importance of bedding and back filling	
•	Working principles of sewerage treatment plant	

UNIT TITLE	:	Carryout installation of advanced sanitary and bathroom fixtures
DESCRIPTOR	:	This unit covers the competencies required to carry out installation of advanced sanitary and bathroom fixtures following safety procedures at all times

# CODE : 7126- U4-L3

ELEMENTS OF COMPETENCE	PERFORMANCE CRITERIA				
<ol> <li>Install advanced sanitary fixtures</li> </ol>	1.1 Interpret drawing and specifications as per th job requirement.				
	1.2 Select and use required tools and equipment as per the job requirements				
	1.3 Select and use required PPE as per the job requirements				
	1.4 Perform installation of Jacuzzi as per the standard procedures				
	1.5 Perform installation of bathtub as per the standard procedures				
2. Install cubicle shower	2.1 Interpret drawing and specifications as per the job requirement.				
	2.2 Select and use required tools and equipment as per the job requirements				
	2.3 Select and use required PPE as per the job requirements				
	2.4 Perform installation of cubicle shower as per the standard procedures				

<ol> <li>Install advanced sanitary fixtures with sensor</li> </ol>	3.1 Interpret drawing and specifications as per the job requirement.
	3.2 Select and use required tools and equipment as per the job requirements
	3.3 Select and use required PPE as per the job requirement
	3.4 Perform installation of advanced <i>sanitary fixtures with sensors</i> as per the standard procedures

#### **RANGE STATEMENT**

#### Sanitary fixtures with sensors may include but not limited to:

Urinal

Wash basin

• WC

#### Tools and Equipment may include but not limited to:

- Measuring tape
- Monkey wrench
- Pipe wrench
- Chain wrench
- Reamer
- Blow lamp
- Heating plate and chalk

- Spirit level
- Dumpy level
- Electric drill
- Pipe vice
- Adjustable wrench
- Plumb bob
- Die set

- Pipe cutter or hacksaw
- Hammer

- Chisel
- File
- Screw driver

#### PPE may include but not limited to:

- Gloves
- Helmet

- Ear muff
- Dust mask

Safety shoes

Safety belt

Goggles

#### **Critical Aspects:**

- Demonstrate compliance with safety regulations applicable to work site operations
- Carryout installation of advanced sanitary and bathroom fixtures as per the standard procedures

UNDERPINNING KNOWLEDGE		UNDERPINNING SKILLS		
•	Ethics and Integrity		•	Team work
•	Interpretation catalogues/manual advanced sanitary fixtures	of of	•	Planning Problem solving

#### Annexure

#### 1.1 National Competency Standards (NCS)

The 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

National Competency Standards serve a number of purposes including:

- Providing advice to curriculum developers about the competencies to be included in curriculum.
- Providing specifications to assessment resource developers about the competencies 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 TVET sector against national competency standards, in training institutions, in the workplace, in schools or anywhere where learning takes place.

#### Components of the Bhutan Vocational Qualifications 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 III)
- National Certificate Level 2 (NC II)
- National Certificate Level 1 (NC I)

#### **BVQF Level Descriptors**

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

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

#### National Certificate Level 1

#### National Certificate Level 2

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

# **National Certificate Level 3**

Carry out processes that:	Learning demand:	Responsibilities which are applied:
<ul> <li>Requires a wide range of technical or scholastic skills.</li> <li>Offer a considerable choice of</li> </ul>	<ul> <li>A broad knowledge base which incorporates some theoretical concepts.</li> <li>Analytical</li> </ul>	<ul> <li>In self-directed activity.</li> <li>Under broad guidance and evaluation.</li> <li>With complete responsibility for guantity and</li> </ul>

procedures	interpretation of	quality of output.
<ul> <li>procedures requiring prioritization to achieve optimum outcomes.</li> <li>Are employed in a variety of familiar and unfamiliar</li> </ul>	<ul> <li>interpretation of information.</li> <li>Informed judgment.</li> <li>A range of sometimes innovative responses to concrete but</li> </ul>	<ul> <li>quality of output.</li> <li>With possible responsibility for the output of others.</li> </ul>
contexts.	problems.	

#### 1.5 PURPOSE

This qualification is designed for people interested in a career as a Plumber at the Certificate level. It comprises of four units that cover the essential knowledge and skills required for people working as a Plumber.

It provides industry specific skills and demands a level of performance that will enable new recruits to the industry to be immediately productive.

#### 1.6 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 practises. 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 national competency standards

Coding the individual skills standard has a multiple purpose:

- to identify the level,
- to identify to which module the standard belongs,
- to identify in which order the standard is clustered within that module.

A job can include a number of competencies described in the national competency standards.

However, in order to follow a logical order, only national 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 module. Some standards are so complex that they need to stand alone.

To illustrate with an example, the ILO assigns the code 7126 to the occupation plumber. Therefore, in the Bhutan's context, the occupation Plumber has been assigned the code 7126 in the National Coding System. The first unit is assigned the code U1, the first Unit of National Competency Standard is designated the code 7126 U1. Levels are assigned the code L and follow a logical progression from the National Certificate Level 1 (NC I) to the National Certificate Level 3 (NC III). Therefore the National Certificate Level 3 is assigned the code L3.

Implementation and operational procedures for National Competency Standards (NCS)



Key:

MoLHR – Ministry of Labour and Human Resources DOS – Department of Occupational Standards

#### 1.7 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, equipments, materials and documents.
- Candidate must complete the assessment in industry accepted time frame.



Department of Occupational Standards Ministry of Labour & Human Resources Thongsel Lam, Lower Motithang P.O. Box 1036, Thimphu. Tel: 02-331611, Fax: 02-326873 www.molhr.gov.bt