



Maldives National Skills Development Authority



National Competency Standard for Electrical Installation and Maintenance

Standard Code: CON01S07V1

Qualification Name: National Certificate III in Electrical Installation and Maintenance
Qualification Code: CON01SQ1L307

PREFACE

The ADB Loan 2028 MLD, Employment Skills Training Project's (ESTP) objective is to increase the number of Maldivians, men and women, actively participating in the labor force, employed and self employed. The Project will support the expansion of demand driven employment-oriented skills training in priority occupations and improve the capacity to develop and deliver Competency Based Skill Training (CBST). The Project aims to (i) provide youth with employment-oriented skills training; (ii) improve public perception of training and employment in locally available skills-oriented occupations; (iii) make available employment-related information to more Maldivians; and (iv) strengthen the capacity for labor administration and for labor market analysis.

The objective of the project is to deliver CBST programs to satisfy employer demand-driven needs. The National Competency Standards (NCS) provide the base for this training. Initially training will be focused on five key sectors: tourism, fisheries and agriculture, transport, construction and the social sectors. These sectors are included as priority sectors in the national development plan and play a vital role in the continued economic growth of the country.

The NCS are developed in consultation with Employment Sector Councils representing employers. They are designed using a consensus format endorsed by the Maldives Accreditation Board (MAB) to maintain uniformity of approach and the consistency of content amongst occupations. This single format also simplifies benchmarking the NCS against relevant regional and international standards.

NCS specify the standards of performance of a competent worker and the various contexts in which the work may take place. NCS also describes the knowledge, skills and attitudes required in a particular occupation. They provide explicit advice to assessors and employers regarding the knowledge, skills and attitudes to be demonstrated by the candidates seeking formal recognition for the competency acquired following training or through work experience. By sharing this information, all participants in the training process have the same understanding of the training required and the standard to be reached for certification. Certification also becomes portable and can be recognized by other employers and in other countries with similar standards.

NCS are the foundation for the implementation of the Technical and Vocational Education and Training (TVET) system in Maldives. They ensure that all skills, regardless of where or how they were developed

can be assessed and recognized. They also form the foundation for certifying skills in the Maldives National Qualification Framework (MNQF).

NCS are developed by the TVET Section of Ministry of Higher Education, Employment and Social Security. The NCS are endorsed by the Employment Sector Councils of the respective sectors and validated by the Maldives Accreditation Board.

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ESTP

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MAB

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National Competency Standard has been Endorsed by		
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Date of Endorsement: 27 December 2007		Date of revision

Key for coding Coding Competency Standards and Related Materials

DESCRIPTION	REPRESENTED BY
Industry Sector as per ESC (Three letters)	Construction Sector (CON) Fisheries and Agriculture Sector (FNA) Transport sector (TRN) Tourism Sector (TOU) Social Sector (SOC) Foundation (FOU)
Competency Standard	S
Occupation with in a industry Sector	Two digits 01-99
Unit	U
Common Competency	1
Core Competency	2
Optional/ Elective Competency	3
Assessment Resources Materials	A
Learning Resources Materials	L
Curricula	C
Qualification	Q1, Q2 etc
MNQF level of Qualification	L1, L2 etc
Version Number	V1, V2 etc
Year of endorsement of standard, qualification	By two digits Example- 07

2. NATIONAL CERTIFICATE III IN ELECTRICAL INSTALLATION AND MAINTANANCE		
3. Qualification code: CON01SQ1L307	Total Number of Credits: 60	
4. Purpose of the qualification		
<p>The holders of this qualification will be competent to work in the Construction Sector as a domestic electrician. The level III qualification presented here will facilitate preparing students to the entry level workplace tasks and the competency units are mapped in such a way to fulfill the knowledge and skills requirements of the “Domestic Electrician” occupation within the local construction Industry.</p>		
5. Regulations for the qualification	National Certificate III in the occupation of Electrician will be awarded to those who are competent in units 1+2+3	
6. Schedule of Units		
Unit Title	Unit Title	Code
1	Carry out domestic single phase and three phase electrical wiring	CON01S2U01V1
2	Carry out inspection, testing, fault finding and repair in domestic electrical installations	CON01S2U02V1
3	Estimates Material requirement for electrical installations	CON01S2U03V1
7. requirements	Accreditation	The training provider should have a workshop or similar training facility to provide the trainees the hands-on experience related to this qualification
8. sequencing of units	Recommended	As appearing under the section 06

2. NATIONAL CERTIFICATE IV IN ELECTRICAL INSTALLATION AND MAINTENANCE	
2. Qualification code: CON01SQ2L407	Total Number of Credits 139
3. Purpose of the qualification	
The holders of the advanced certificate are expected to possess all the relevant knowledge and skills to work as Electrician in the Construction Industry.	
4. Regulations for the qualification	National Certificate IV in the occupation of Electrician will be awarded to those who are competent in units 1+2+3+4+5+6+7 (Unit 7 is optional)
5. Schedule of Units	
Unit Title	Unit Code
Carry out domestic single phase and three phase electrical wiring	CON01S2U01V1
Carry out inspection, testing, fault finding and repair in domestic electrical installations	CON01S2U02V1
Estimates Material requirement for electrical installations	CON01S2U03V1
Carry out industrial electrical installations	CON01S2U04V1
Inspect, test, trace and repair faults in industrial electrical installations	CON01S2U05V1
Install service / repair or replace electrical control system and protective switchgear	CON01S2U06V1
Install service and repair programmable logic control systems	CON01S2U07V1
6. Accreditation requirements	The training provider should have a workshop or similar training facility to provide the trainees the hands-on experience related to this qualification
7. Recommended sequencing of units	As appearing under the section 06

Units Details

Unit Title	Unit Title	Code	Level	No of credits
1	Carry out domestic single phase and three phase electrical wiring	CONo1S2Uo1V1	3	36
2	Carry out inspection, testing, fault finding and repair in domestic electrical installations	CONo1S2Uo2V1	3	18
3	Estimates Material requirement for electrical installations	CONo1S2Uo3V1	3	06
4	Carry out industrial electrical installations	CONo1S2Uo4V1	4	24
5	Inspect, test, trace and repair faults in industrial electrical installations	CONo1S2Uo5V1	3	12
6	Install service / repair or replace electrical control system and protective switchgear	CONo1S2Uo6V1	4	18
7	Install service and repair programmable logic control systems	CONo1S2Uo7V1	4	25

Packaging of National Qualifications:

National certificate III in Electrician (domestic) will be awarded to those who are competent in units 1+2+3

Qualification Code: CONo1SQ1L307

National Advanced Certificate in Electrician will be awarded to those who are competent in units 1+2+3+4+5+6+7(Unit 7 is optional)

Qualification Code: CONo1SQ2L407

Competency Standard for

ELECTRICAL INSTALLATION AND MAINTENANCE

Unit No	Unit Title
1.	Carry out domestic single phase and three phase electrical wiring
2.	Carry out inspection, testing, fault finding and repair in domestic electrical installations
3.	Estimates Material requirement for electrical installations
4.	Carry out industrial electrical installations
5.	Inspect, test, trace and repair faults in industrial electrical installations
6.	Install service / repair or replace electrical control system and protective switchgear
7.	Install service and repair programmable logic control systems