



Maldives National Skills Development Authority



National Competency Standard for Heavy Vehicle Operations

Standard Code: TRNS02V1/20

Qualification Name: National Certificate III in Heavy Vehicle Operations
Qualification Code: TRNS02Q1L3V1/20

PREFACE

Technical and Vocational Education and Training (TVET) Authority was established with the vision to develop a TVET system in the Maldives that is demand driven, accessible, beneficiary financed and quality assured, to meet the needs of society for stability and economic growth, the needs of Enterprise for a skilled and reliable workforce, the need of young people for decent jobs and the needs of workers for continuous mastery of new technology.

TVET system in the Maldives flourished with the Employment Skills Training Project (ESTP) funded by ADB with the objective of increasing the number of Maldivians, actively participating in the labor force, employed and self-employed. The Project supported expansion of demand driven employment-oriented skills training in priority occupations and to improve the capacity to develop and deliver Competency Based Skill Training (CBST). The project supported delivery of CBST programs to satisfy employer demand-driven needs.

Recognizing the importance of developing the youth sector to enable Maldives to transition from an upper-middle-income country to high-income country, the World Bank Country Partnership Framework (CPF) proposes to finance the Maldives Enhancing Employability and Resilience of Youth (MEERY) project. As part of the MEERY project is financing for skills development and entrepreneurship in priority sectors such as tourism, ICT and construction sector MEERY continues to provide support to TVET Authority to develop National Occupational Standard, instructional materials, assessment resource book and trainees log book for the National Occupational Standard for "Heavy Vehicle Operator". As part of the MEERY Project, TVET Authority has only undertaken to review standard which were developed in the ESTP Project to increase the economic opportunities for youth's trainees and promote equitable economic & social development in the country.

The National Competency Standards (NCS) provide the base for this training. Currently CBST is offered for six key sectors in the Maldives: Tourism, Fisheries and Agriculture, Transport, Construction, Social and the Information and Technology sectors. These sectors are included as priority sectors that 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 Qualifications Authority (MQA) 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 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 Technical and Vocational and Education Training Authority of Ministry of Higher Education. The NCS are endorsed by the Employment Sector Councils of the respective sectors and validated by the Maldives Qualification Authority.





Mohamed Hashim
Minister of State for Higher Education
TVET Authority



Ahmed Nisham
Director, Standard Development & Statistics
TVET Authority

TECHNICAL PANEL MEMBERS			
#	Name	Designation	Organization
01	Ibrahim Afzal	Assistant General Manager	Maldives Ports Limited
02	Ali Shareef Moosa	Senior Technical Manager	Maldives Transport and Contracting Company
03	Ali Rameez	Assistant Manager	Maldives Airports Company Limited
04	Ibrahim Zaeem	First Sergeant	Maldives National Defense Force
05	Mohamed Ibraz Najeeb	Manager of Engineering Department	State Trading Organization
06	Abdullah Iyad Ahmed	Senior Technical Officer	Housing Development Corporation
07	Rilwan Mohamed	Lecturer	Maldives Polytechnic

VERSION	DEVELOPER	DATE	STANDARD CODE
V1	Maldives Institute of Technology	27 th September 2020	TRNS02V1/20

EMPLOYMENT SECTOR COUNCILS			
#	Name	Designation	Organization
01	Captain Adhil Rasheed	CEO	Maritime Academy of Maldives
02	Fathimath Nishar	Assistant Director	Ministry of Youth, Sports, and Community Empowerment
03	Ahmed Ifthikhar	Director	Ministry of Economic Development
04	Hussain Nazeer	Assistant Director	Maldives Transport Authority
05	Captain Ahmed Zubair	Lecturer	Centre for Maritime Maldives, Maldives National University
06	Ahmed Shahid	Port Captain	State Trading Organization (STO)
07	Abdulla Mohamed	Director Airworthiness	Maldives Civil Aviation Authority
08	Ahmed Haleem	Deputy Director	Maldives Transport Authority
09	Abdul Razzaq Adam	Assistant Lecturer	Maldives Polytechnic
10	Aishath Neesha Khaleel	Assistant General Manager	Maldives Ports Limited (MPL)
11	Ali Fathih	Transport Service Department Manager	Maldives Transport Contracting Company
National Occupational Standard has been endorsed by:			
			
Captain Adhil Rasheed Chairperson Tourism Employment Sector Council		Fathimath Nishar Vice-Chairperson Tourism Employment Sector Council	
Technical and Vocational Education and Training Authority Ministry of Higher Education Handhuvaree Hingun, M. World Dream Male', Maldives			
Date of Endorsement: 27 th September 2020		Date of Revision: NA	

Standard Development Process

Heavy Vehicle Operator occupations were profiled through a study of the occupation across Maldivian workplaces. Referred occupational profiling process led to the development of the Draft Occupational Standard.

Draft occupational standard is then used to undertake functional analysis of the Heavy Vehicle Operator occupation and the referred functional process was undertaken with participation of industry experts. For strengthening the development of the National Occupational Standard, a panel with technical experts was formed. The members provide technical support, which needs to be included in the developed standard.

Once the standard is finalized by the panel, it is then submitted to the Transport Employment Sector Council. A brief report on how National Occupational Standard for Heavy Vehicle Operator was developed and presented to the council. Council members then ensures that the industry need has been catered to, and once the standard fulfills the recommendation, it is endorsed by the council.

After endorsing the standard from the Transport Employment Sector Council, the final document is submitted to Maldives Qualification Authority (MQA) for approval. After the approval of MQA the National Occupational Standard for Heavy Vehicle Operator is published, which would be then used by training providers.

Description of “Heavy Vehicle Operator Occupation”

Heavy Vehicle Operator plays an important role in supporting and facilitating transportation of heavy objects required by the Maldivian industries. Services related to heavy vehicle operation and maintenance is required by Maldivian industries, such as construction and tourism sectors. Besides that, important institutions such as Maldives Ports Limited, Maldives Transport and Contracting Company (MTCC), State Electric Company (STELCO), all seek services of heavy vehicles.

Heavy Vehicle Operators will be working with tourism, construction and other sectors, facilitating operating expensive heavy vehicle fleet within the Maldivian enterprises. Properly trained Heavy Vehicle Operators will not only assist the smooth operation of the vehicle fleet, but ensure all such jobs are undertaken with extreme safety and care. They will also have competency to effectively operate such expensive vehicles and will ensure safety of the goods transported, safety around the site and above all, will ensure safety of the people around such heavy lifting jobs.

Job opportunities upon completion of “National Certificate III in Heavy Vehicle Operations”

Upon successful completion of the training and obtaining the “National Certificate III in Heavy Vehicle Operations”, successful students can work in the following jobs.

- ✓ Crane Operator
- ✓ Forklift Operator
- ✓ Excavator Operator
- ✓ Driver/Operator of Heavy Vehicles

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 (FNA) Information, Communication and Technology (ICT) Transport Sector (TRN) Tourism Sector (TOU) Social Sector (SOC) Foundation (FOU)
Competency Standard	S
Occupation with in an industry sector	Two digits 01-99
Unit	U
Common Competency	CR
Core Competency	CM
Optional / Elective Competency	OP
Assessment Resources Materials	A
Learning Resources Materials	L
Curricular	C
Qualification	Q1, Q2 etc.
MNQF level of qualification	L1, L2, L3, L4 etc.
Version Number	V1, V2 etc.
Year of endorsement of standard, qualification	By “/” followed by two digits responding to the year of last review, example /20 for the year 2020

1. Endorsement Application for Qualification 01		
2. NATIONAL CERTIFICATE III IN HEAVY VEHICLE OPERATIONS		
3. Qualification code: TRNS02Q1L3V1/20		Total Number of Credits: 82
4. Purpose of the qualification This qualification describes the performance outcomes, skills and knowledge required to safely and effectively operate heavy vehicles, for the purpose of transportation of heavy objects required by Maldivian industries. After successful completion of the program and obtaining the relevant licensing from the Transport Authority, holders of this qualification can work as drivers and heavy vehicle operators.		
5. Regulations for the qualification		National Certificate III in Heavy Vehicle Operations will be awarded to those who are competent in the following units of 1+2+3+4+5+6+7+8+9+10+11+12 and “ANY TWO UNITS” from 13, 14, 15, 16, 17 or 18
6. Schedule of Units		
Unit No	Unit Title	Code
Common Competencies		
01	Apply work ethics and professionalism	TRNCM02V1/20
02	Provide effective customer care	TRNCM05V2/20
03	Perform basic computer operations	TRNCM06V2/20
04	Provide first aid	TRNCM07V2/20
Core Competencies		
05	Participate in safe work practices	TRNS02CR05V1/20
06	Use and maintain tools and equipment required for vehicle operations	TRNS02CR06V1/20
07	Perform effective workplace communication	TRNS02CR07V1/20
08	Operate and inspect heavy duty engine and its system	TRNS02CR08V1/20
09	Inspect mechanical systems of heavy vehicles	TRNS02CR09V1/20
10	Comply to road rules and regulations on driving heavy vehicles	TRNS02CR10V1/20
11	Apply safe Forklift operation skills	TRNS02CR11V1/20
12	Apply safe Loader operation skills	TRNS02CR12V1/20
13	Apply safe Excavator operation skills	TRNS02CR13V1/20
14	Apply safe Mobile Cranes operation skills	TRNS02CR14V1/20
15	Apply safe Dump Truck operation skills	TRNS02CR15V1/20
16	Apply safe Road Sweeper operation skills	TRNS02CR16V1/20
17	Apply safe Boom Truck operation skills	TRNS02CR17V1/20
18	Apply safe Reach Stacker operation skills	TRNS02CR18V1/20
7. Accreditation requirements		The training provider should place trainees in relevant industry or sector to provide the trainees, the hands-on experience exposure related to this qualification.
8. Recommended sequencing of units		As appearing under the section 06

#	Unit Title	Code	Level	No of Credits	Credit Hours	Contact Hours
01	Apply work ethics and professionalism	TRNCM02V1/20	III	03	30	15
02	Provide effective customer care	TRNCM05V2/20	III	05	50	25
03	Perform basic computer operations	TRNCM06V2/20	III	03	30	15
04	Provide first aid	TRNCM07V2/20	III	05	50	25
05	Participate in safe work practices	TRNS02CR05V1/20	III	02	20	10
06	Use and maintain tools and equipment required for vehicle operations	TRNS02CR06V1/20	III	02	20	10
07	Perform effective workplace communication	TRNS02CR07V1/20	III	02	20	10
08	Operate and inspect heavy duty engine and its system	TRNS02CR08V1/20	III	04	40	20
09	Inspect mechanical systems of heavy vehicles	TRNS02CR09V1/20	III	04	40	20
10	Comply to road rules and regulations on driving heavy vehicles	TRNS02CR10V1/20	III	04	40	20
11	Apply safe Forklift operation skills	TRNS02CR11V1/20	III	06	60	30
12	Apply safe Loader operation skills	TRNS02CR12V1/20	III	06	60	30
13	Apply safe Excavator operation skills	TRNS02CR13V1/20	III	06	60	30
14	Apply safe Mobile Cranes operation skills	TRNS02CR14V1/20	III	06	60	30
15	Apply safe Dump Truck operation skills	TRNS02CR15V1/20	III	06	60	30
16	Apply safe Road Sweeper operation skills	TRNS02CR16V1/20	III	06	60	30
17	Apply safe Boom Truck operation skills	TRNS02CR17V1/20	III	06	60	30
18	Apply safe Reach Stacker operation skills	TRNS02CR18V1/20	III	06	60	30
Total				82	820	410

Packaging of National Qualifications:

National Certificate III in Heavy Vehicle Operations will be awarded to those who are competent in the following units of 1+2+3+4+5+6+7+8+9+10 and “ANY TWO UNITS” from 10, 11, 12, 13, 14, 15, 16, 17 or 18

Qualification Code: TRNS02Q1L3V1/20

COMPETENCY BASED ASSESSMENT

The final assessment of the National Competency-Based Programmes conducted by the Maldives National Skills Development Authority (MNSDA) is a competency-based assessment.

The Competency-Based Assessment ensures that the students' performance meets the requirements specified in the National Competency Standards (NCS). This assessment approach is designed to verify that graduates are job-ready and meet established occupational competency requirements within their respective fields.

Eligibility for Final Assessment

To be eligible for the final Competency-Based Assessment, students must fulfil the following conditions:

- achieve a **minimum of 80%** attendance
- deemed competent in each of the units of the programme in the pre-assessment

Competency-Based Assessment Process

Upon submission of the Pre-assessment report by the training provider, MNSDA will check for all the necessary supporting documents and conduct Competency-Based Assessment through a National Assessor registered with MNSDA. It is important to note that any trainer involved in the training process is **not permitted** to conduct the assessment to maintain impartiality and integrity of the process.

The final Competency-Based Assessment conducted by MNSDA includes both:

- **Theory:** Evaluating students' knowledge and understanding of key theoretical aspects of the competency.
- **Practical:** Assessing hands-on skills and application of knowledge in real-world or simulated environments.

Once the assessment is completed, the National Assessor will send the Competency-Based Assessment Report to MNSDA.

Competency Status Requirement

For certification to be granted, the student must be officially declared "**Competent**" in each of the units of the programme by the National Assessor.

Conclusion

Competency-Based Assessment is a critical component in ensuring the quality and credibility of technical and vocational skills-based training. By adhering to the outlined procedure, MNSDA upholds the standards required to certify students who are fully prepared to meet industry demands.