

Maldives National Skills Development Authority



National Competency Standard for Tug Operator

Standard Code: TRA-09L3-V1-24

FOREWORD

The pivotal role of the Maldives National Skills Development Authority (MNSDA) in meticulously implementing and expanding Technical and Vocational Education & Training (TVET) exemplifies the steadfast commitment of the Maldives to build a skilled and resilient workforce. This commitment is evident from the strategic formulation of National Standards and the establishment of a comprehensive framework for training and certification.

Under the Higher Education and Training Act 7/2021, the MNSDA assumes an instrumental role, reflecting the government's unwavering dedication to streamlining TVET policies and procedures. This includes the establishment of a robust system for accrediting and registering both Institution Based Training (IBT) and Employer Based Training (EBT) providers. The MNSDA's active involvement in conducting the National Apprenticeship Program (NAP), National Trade Testing and Certification (NTTC), and the issuance of National Certificates reflects a comprehensive approach to ensure elevated quality standards and competency within the workforce.

The National Competency Standards (NCS) revised through the Maldives Enhancing Employability and Resilience of Youth (MEERY) project accentuates the commitment to updating and sustaining contemporary skill sets aligned precisely with industry demands. Deliberate efforts to revise existing NCS, coupled with the development of curriculum, teaching materials, resource books, and logbooks, attest to our dedication to ensuring the ongoing relevance and currency of the TVET system in the Maldives.

The active engagement of Technical Panels and Employment Sector Councils in the NCS development and approval process, coupled with alignment to the Maldives National Qualification Framework (MNQF) and accreditation by the Maldives Qualifications Authority (MQA), certifies that the TVET system not only remains highly responsive but also ensures the quality standards demanded by industries. This approach enables the system to effectively meet the diverse needs of industries and adapt to the evolving economic landscape.

The collaborative development of the National Certificate III in Tug Operator by the MNSDA, MEERY, and the Maldives Institute of Technology exemplifies the practical implementation of TVET initiatives. This training package represents a critical stride towards addressing the requisite skills while fostering opportunities to integrate sustainable economic development within the TVET framework.

Dr. Zahra Mohamed

Chief Executive Officer

Maldives National Skills Development Authority

	EMPLOYMENT SECTOR COUNCILS				
#	Name	Designation	Organisation		
01	Ahmed Shameem	Director General	Ministry of Transport and Civil Aviation		
02	Mohamed Jamshad	Colonel	Maldives National Defence Force		
03	Ahmed Shujau	Chief Inspector of Police	Maldives Police Services		
04	Aishath Neesha Khaleel	General Manager	Maldives Ports Limited		
05	Mohamed Zaid	Head of Center for Maritime Studies	MNU / Maritime Center		
06	Asiyath Haneef	Training Manager at Maldivian	Maldivian		
07	Ahmed Shahid	Maritime Expert	-		
08	Ismail Fariq	Chief Sales Officer	Maldives Transport and Construction Company		
09	Fathimath Haula	Programme Officer	Maldives National Skills Development Authority		

National Occupational Standard has been endorsed by:

Aishath Neesha Khaleel

Chair person

Transport Sector Council

Maldives National Skills Development Authority

Umar Zahir Office Building, 5th Floor,

OrchidMaa Hingun, Hulhumale', Republic of Maldives.

Date of Endorsement:26.02.2025

	TECHNICAL SUPPORT				
#	Name	Designation	Organisation		
01					
02					

	TECHNICAL PANEL MEMBERS				
# Name Designation Organisation		Organisation			
01	Hussain Rasheed	Director- Maritime Operations	MNDF		
02	Hassan Zareer	Harbour Master	Maldives Ports Limited		
03	Mohamed Ziyau	Deputy Direcor - Training and Development Department	MNDF Coast Guard		

VERSION	DEVELOPER	DATE	STANDARD CODE
V1	Maldives Institute of Technology	01.07.2024	TRA-09L3-V1-24

Standard Development Process

The development of the "National Certificate III in Tug Operator" Standard involved a comprehensive study of transportation occupations in Maldivian workplaces, with a focus on marine enterprises. Job descriptions and international occupational trends were analysed to draft an initial Occupational Standard. This draft will undergo further refinement through a Technical Panel (TP) from Maldivian workplaces, ensuring incorporation of competencies and edits. The TP will provide technical input, suggesting changes to the standard, until a final draft is agreed upon. The approved Final Draft will then be submitted to the Construction Employment Sector Council for endorsement and validation. A brief report detailing the compilation process will accompany the Standard for the Council's review, and any recommended changes will be addressed before final endorsement.

With the endorsement from the Construction Employment Sector Council, the finalised National Occupational Standard for Tug Operator will be submitted to the Maldives Qualification Authority (MQA) for final approval. Upon receiving MQA approval, the standard will be officially published on the Maldives National Skills Development Authority (MNSDA) website. This publication will enable training providers in the Maldives to utilise the standard for delivering the Tug Operator program, ensuring its widespread implementation across the country

Description of "Tug Operator"

The "Tug Operator" standard serves as a foundational guideline designed to enhance essential skills within the maritime industry. This program is dedicated to equipping individuals with fundamental competencies crucial for proficient operation of tugboats, ensuring the safe and efficient movement of vessels within harbours and open waters. Participants will gain practical insights into tugboat equipment operation, navigation principles, and adherence to maritime regulations, emphasising safety and precision in towage operations.

The certification acts as an entry point for professionals venturing into the maritime sector, providing a robust foundation in the essential skills required to handle various maritime environments and challenges.

Proposed Qualification Titles

Following are the recommended titles by the selected internal expert team of MIT for the National Certificate III in Tug Operator.

1. Nil

Job opportunities upon completion of "National Certificate III in Tug Operator"

Upon successful completion of the National certificate III in Tug Operator, students can work in the following jobs.

- 1. Assistant Tug Operator
- 2. Tugboat Maintenance Technician
- 3. Port Operations Coordinator

KEY FOR CODING

Coding Competency Standards and Related Materials

DESCRIPTION	REPRESENTED BY
	Construction Sector (CON)
	Fisheries and Agriculture (FNA)
	Information, Communication and Technology (ICT)
Industry Sector as per ESC (Three letters)	Transport Sector (TRN)
	Tourism Sector(TOU)
	Social Sector (SOC)
	Foundation (FOU)
Standard Number - Occupation with in an industry sector	Two digits 01-99
Common Competency	СМ
Core Competency	CC
Unit Number - Occupation within a Standard	Three digits 01-99
MNQF level of qualification	L1, L2, L3, L4 etc.
Version Number	V1, V2 etc.
Separator	-
Voor of Last Pavian of standard qualification	Two digits responding to the year of
Year of Last Review of standard, qualification	last review, example 23 for the year 2023
Qualification Code	Refers to Standard code in cover page

1. Endorsement Application for Qualification 01

2. NATIONAL CERTIFICATE III IN TUG OPERATOR

3. Qualification code: TRA-09L3-V1-24 | Total Number of Credits: 73

4. Purpose of the qualification

This qualification aims to equip individuals with the essential skills and knowledge required for the safe and efficient operation of tugboats in harbours and open waters. It enhances maritime professionals' proficiency in tugboat equipment operation, navigation principles, and maritime regulations, emphasising safety, effective communication, and emergency response. Additionally, it prepares individuals to meet regional environmental and regulatory conditions, in the Maldives.

5. Regulations for the qualification

National Certificate III in the occupation of Tug Operator will be awarded to those who are competent in units 1+2+3+4+5+6+7+8+9+10+11+12+13+14+15+16+17+18

6. Schedule of Units

Unit No.	Unit Title	Code		
Common Competencies				
01	Apply work ethics and optimise professionalism	TRA-07-CM01-V1-25		
02	Utilise emerging technologies for communication and collaboration	TRA-09-CM01-V1-25		
Core Com	petencies			
03	Practice personal safety and social responsibilities	TRA-09-CC01-V1-25		
04	Apply basic fire prevention and firefighting skills	TRA-09-CC02-V1-25		
05	Apply elementary first aid skills	TRA-09-CC03-V1-25		
06	Perform navigation and chart works	TRA-09-CC04-V1-25		
07	Operate electronic navigation equipment	TRA-09-CC05-V1-25		
08	Operate radio communication system	TRA-09-CC06-V1-25		
09	Comply with maritime regulations	TRA-09-CC07-V1-25		
10	Apply meteorological knowledge and skills	TRA-09-CC08-V1-25		
11	Understand basic fundamentals of tug operations	TRA-09-CC09-V1-25		
12	Operate and maintain tugboat machinery, equipment and controls	TRA-09-CC10 -V1-25		
13	Manage emergency response and safety protocols	TRA-09-CC11-V1-25		
14	Manoeuvre and handling of tugboats	TRA-09-CC12-V1-25		
15 Conduct towage operations and procedures TRA-09-CC		TRA-09-CC13-V1-25		
16	Perform routine maintenance of tugboat machinery	TRA-09-CC14-V1-25		

17	Report and document logbook maintenance		TRA-09-CC15-V1-25		
18	18 Work on board a tugboat		TRA-09-CC16-V1-25		
7. 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 and make arrangements for providing industrial experience.			
8. Recommended sequencing of units		As appearing under the section 06			

Unit Details

Unit No.	Unit Title	Code	Level	No. of credits	Credit hours	Contact hours
01	Apply work ethics and optimise professionalism	TRA-07-CM01-V1-25	III	03	30	15
02	Utilise emerging technologies for communication and collaboration	TRA-09-CM01-V1-25	III	03	30	15
03	Practice personal safety and social responsibilities	TRA-09-CC01-V1-25	III	03	30	15
04	Apply basic fire prevention and firefighting skills	TRA-09-CC02-V1-25	III	03	30	15
05	Apply elementary first aid skills	TRA-09-CC03-V1-25	III	03	30	15
06	Perform navigation and chart works	TRA-09-CC04-V1-25	III	04	40	20
07	Operate electronic navigation equipment	TRA-09-CC05-V1-25	III	04	40	20
08	Operate radio communication system	TRA-09-CC06-V1-25	III	04	40	20
09	Comply with maritime regulations	TRA-09-CC07-V1-25	III	04	40	20
10	Apply meteorological knowledge and skills	TRA-09-CC08-V1-25	III	03	30	15
11	Understand basic fundamentals of tug operations	TRA-09-CC09-V1-25	III	04	40	20
12	Operate and maintain tugboat machinery, equipment and controls	TRA-09-CC10 -V1-25	III	04	40	20
13	Manage emergency response and safety protocols	TRA-09-CC11-V1-25	III	04	40	20
14	Manoeuvre and handling of tugboats	TRA-09-CC12-V1-25	III	04	40	20
15	Conduct towage operations and procedures	TRA-09-CC13-V1-25	III	04	40	20
16	Perform routine maintenance of tugboat machinery	TRA-09-CC14-V1-25	III	04	40	20
17	Report and document logbook maintenance	TRA-09-CC15-V1-25	III	03	30	15
18	Work on board a tugboat	TRA-09-CC16-V1-25	III	12	120	25
	Total			73	730	330

Packaging of National Qualifications:National Certificate III in Tug Operator will be awarded to those who are competent in units 1+2+3+4+5+6+7+8+9+10+11+12+13+14+15+16+17+18

Qualification Code: TRA-09L3-V1-24

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.