

NATIONAL OCCUPATIONAL STANDARDS FOR CONSTRUCTION/ BUILDING TRADES IN NIGERIA

TILING AND DECORATIVE STONE WORK

VOLUME 1



COUNCIL OF REGISTERED BUILDERS OF NIGERIA

CORBON

Established in 1989

COUNCIL OF REGISTERED BUILDERS OF NIGERIA
(ESTABLISHED BY Builders Registration Act CAPB13 LFN 2004)



NATIONAL BOARD FOR
TECHNICAL EDUCATION

PREFACE

The Construction industry occupies a very critical position in the Nigerian economic landscape. It is a major contributor to the nation's GDP and one of the biggest employer of labour particularly in the artisanal level. However, there is the prevalence of skills gap in the sector which has impacted on the quality of our buildings. The need to improve the quality of works produced by Nigerian artisans and craftsmen is the primary reason for the development of the National Occupational Standards (NOS) for Building Trades in Nigeria.

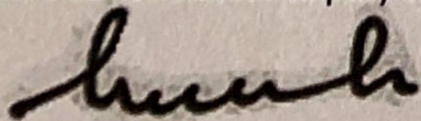
This NOS is a product of relentless efforts that started in 2014 when CORBON was assigned the role of a Sector Skills Council (SSC) under the National Vocational Qualification Framework (NVQF) programme being spearheaded by the National Board for Technical Education. Its primary objective is the promotion of skills development in the Building/ Construction Sector. The Council has since then continued to deliver on its mandates by working and collaborating with NBTE and other stakeholders in ensuring;

- " The Training of Assessors under the NVQF programme
- " Organising the conduct of training of master trainers
- " Development of Sector skills plan and maintaining skills inventory
- " Development of competency standards and Qualifications
- " Development of NOS for the appropriate skills, amongst others.

This maiden edition covers Seven (7) different trades in the industry, namely; Masonry, Carpentry, Electrical Installation, Painting and Decoration, Welding and Fabrication, Tiling, and Plumbing. This document will serve as a uniform standard training tool for up-skilling our Artisans and Craftsmen under the NVQF programme, as they are critical and indispensable in Building Production delivery. Moreover, these set of quality personnel are very scarce in the Nigerian market today.

It is my pleasure to state that we appreciate the effort and substantial contributions of all individuals and stakeholders who have made valuable contributions in the development of this NOS.

I am happy with the current efforts made so far because it is a measure of our readiness and preparedness to grapple with the task ahead of us to reposition the building / construction sector to play the key role in industrialising Nigeria.



Mr. Babatunde Raji Fashola, SAN
Minister for Power, Works and Housing
Federal Republic of Nigeria

FOREWORD

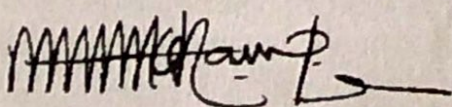
It is evident that young people out of employment, under employed, having left education too early or completed with inadequate skills, are everywhere in Nigeria. These are at high risk of economic marginalization and social exclusion. Upgrading their skills is essential in helping them to enter, or return to the labour market or become entrepreneurs. So the challenge is hugely depended on how Nigeria can transform this youthful population into highly skilled and competent citizens. A major part of the responsibility for preparing such a workforce rests on our Nation's education and training systems. It is for this reason that National Board for Technical Education (NBTE) has been spearheading skills development programmes in Nigeria through the National Vocational Qualifications Framework (NVQF) in line with the practice adopted by many countries.

NVQF is a system for the development, classification and recognition of skills, knowledge and competencies acquired by individuals, irrespective of where and how the training or skill was acquired. The system gives a clear statement of what the learner must know or be able to do whether the learning took place in a classroom, on-the-job, or less formally. The framework is the instrument through which National Vocational Qualifications (NVQs) are delivered. The NVQs are based on National Occupational Standards (NOS) dictated by industry bodies or employers. At the moment in Nigeria, different industries, organisations and companies have their standards which do not attract national certification and recognition. However, with the coming of CORBON as the sector skills council for the building industry, it has harmonised and standardised learning outcomes and competencies to be attained irrespective of how and where the learning took place. The outcome is what we have in this document as the classified NOS.

National Occupational Standards (NOS) specify the standard of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet that standard consistently. Essentially NOS are benchmarks of good practice. Each NOS defines one key function in a job role and describes functions, standards of performance and knowledge/understanding.

The preparation and maintenance of the NOS are tasks which cannot be completed once and for all in our expanding economy, changes in techniques and scientific developments are continually introducing new job opportunities requiring new occupational skills in the new industrial processes the preparation and the maintenance work will, therefore, be a continuous process. I therefore appeal to all stakeholders to partner and support CORBON achieve this laudable objectives. It is an essential requirement for the production of competent, flexible and competitive workforce in Nigeria.

I call on other regulatory agencies and the organised Private Sector to partner with NBTE, as they actually have the leading role, and stand to derive the greatest benefit from a successful NVQF in Nigeria.



Dr. M.A. Kazaure, mni
Executive Secretary, NBTE



TILING AND DECORATIVE STONework

QCF LEVEL: 1

The National Occupational Standards (NOS) For Building Construction Trades in Nigeria are training guidelines and benchmarks for examination and qualification of candidates in specific construction trades. Qualifications associated with the construction trades are classified into different vocational competencies called levels. The competency standards are developed to promote effective communication systems, team spirit, safe operation of construction equipment, adherence to project sequencing and scheduling, materials handling, excellent finishes and safety among all personnel and visitors involved in all construction trades.

The Qualifications and Credit Framework (QCF) Level 1 for Tiling and Decorative stonework is made up of six (6) units, with Guided Learning Hours (GLH) of One Hundred and Forty (140).

Evidence requirements for this level are: Direct Observation (DO), Question and answers (QA) Witness Testimony (WT), Work Product (WP) and Personal statement (Reflective account) (PS).

The qualification summary for QCF Level 1 for Tiling and Decorative stonework is presented in the table below.

LEVEL 1: TILING AND DECORATIVE STONework					
QUALIFICATION SUMMARY					
UNIT	UNIT REFERENCE	CREDIT	GLH	UNIT TITLE	REMARK
1	CON/TL/001/L1	2	20	Health and Safety and Environment in Tiling and Decorative Stonework	Mandatory
2	CON/TL/002/L1	2	20	Communication System in a Work Environment	Mandatory
3	CON/TL/003/L1	1	10	Team Work	Mandatory
4	CON/TL/004/L1	3	30	Basic Tools, Equipment and Materials	Mandatory
5	CON/TL/005/L1	3	30	Mix Preparation	Mandatory
6	CON/TL/006/L1		30	Surface Preparation for Tiling and Stone Decoration Work	Mandatory



At the end of the QCF Level 1 for Tiling and Decorative stonework, the Learner is expected to:

1. Understand and demonstrate safe work practices and instructions
2. Recognise safety hazards and risks
3. Recognise the various types of Personal Protective Equipment (PPE) relevant to the task being executed
4. Take appropriate actions in case of personal accident/injury
5. Carry out lifting, loading/off-loading and stacking of materials appropriately.
6. Use a non-complex communication system in a work environment.
7. Develop the ability to identify the sources of information in a work environment.
8. Demonstrate the use of various communication means in a work environment.
9. Understanding of basic hand tools used in plumbing installation work.
10. Understanding of portable power tools and equipment used in Tiling and Decorative Stone Work.
11. Recognise the various types of Tiling and Decorative Stone Work materials.

This qualification is for those interested in developing a career in the construction industry. To gain Level 1 qualification in Tiling and Decorative Stone Work, learners must achieve 14 credits from the mandatory units.



TILING AND DECORATIVE STONework

QCF LEVEL: 2

The National Occupational Standards (NOS) For Building Construction Trades in Nigeria are training guidelines and benchmarks for examination and qualification of candidates in specific construction trades. Qualifications associated with the construction trades are classified into different vocational competencies called levels. The competency standards are developed to promote effective communication systems, team spirit, safe operation of construction equipment, adherence to project sequencing and scheduling, materials handling, excellent finishes and safety among all personnel and visitors involved in all construction trades.

The Qualifications and Credit Framework (QCF) Level 2 for Tiling and Decorative stonework is made up of eight (8) units, with Guided Learning Hours (GLH) of One Hundred and Ninety (190).

Evidence requirements for this level are: Direct Observation (DO), Question and answers (QA) Witness Testimony (WT), Work Product (WP) and Personal statement (Reflective account) (PS).

The qualification summary for QCF Level 2 for Tiling and Decorative stonework is presented in the table below.

LEVEL 2: TILING AND DECORATIVE STONework					
QUALIFICATION SUMMARY					
UNIT	UNIT REFERENCE	CREDIT	GLH	UNIT TITLE	REMARK
1	CON/TL/001/L2	1	10	Health, Safety and Welfare in Construction and Associated Industries	Mandatory
2	CON/TL/002/L2	3	30	Communication System in a Work Environment	Mandatory
3	CON/TL/003/L2	3	30	Team Work	Mandatory
4	CON/TL/004/L2	3	30	Interpret information to tile wall/ Floor surfaces	Mandatory
5	CON/TL/005/L2	2	20	Preparations for Tiling Wall / Floor Surface	Mandatory
6	CON/TL/006/L2	4	40	Set Out & Fix Tiles to Wall Surfaces	Mandatory
7	CON/TL/007/L2	1	10	Forming Sand & Cement / Cement & Chippings or Granite Mix	Mandatory
8	CON/TL/008/L2	2	20	Set out & Tile floor surfaces	Mandatory



This qualification is for those interested in developing a career in the construction industry. To gain Level 2 qualification in Tiling and Decorative Stone Work, learners must achieve 19 credits from the mandatory units.



TILING AND DECORATIVE STONework

QCF LEVEL: 3

The National Occupational Standards (NOS) For Building Construction Trades in Nigeria are training guidelines and benchmarks for examination and qualification of candidates in specific construction trades. Qualifications associated with the construction trades are classified into different vocational competencies called levels. The competency standards are developed to promote effective communication systems, team spirit, safe operation of construction equipment, adherence to project sequencing and scheduling, materials handling, excellent finishes and safety among all personnel and visitors involved in all construction trades.

The Qualifications and Credit Framework (QCF) Level 3 for Tiling and Decorative stonework is made up of Ten (10) units, with Guided Learning Hours (GLH) of Three Hundred and Fifty (350).

Evidence requirements for this level are: Direct Observation (DO), Question and answers (QA) Witness Testimony (WT), Work Product (WP) and Personal statement (Reflective account) (PS).

The qualification summary for QCF Level 3 for Tiling and Decorative stonework is presented in the table below.

LEVEL 3: TILING AND DECORATIVE STONework					
QUALIFICATION SUMMARY					
UNIT	UNIT REFERENCE	CREDIT	GLH	UNIT TITLE	REMARK
1	CON/TL/001/L3	2	20	Health, Safety and Environment	Mandatory
2	CON/TL/002/L3	2	20	Communication System in a Work Environment	Mandatory
3	CON/TL/003/L3	3	30	Team Work	Mandatory
4	CON/TL/004/L3	4	40	Lay Wall and Floor Tiles	Mandatory
5	CON/TL/005/L3	4	40	Repair of tiling work	Mandatory
6	CON/TL/006/L3	4	40	Lay and install tiles to internal and external corners	Mandatory
7	CON/TL/007/L3	4	40	Tiling curved surfaces	Mandatory
8	CON/TL/008/L3	4	40	Stoneworks	Mandatory
9	CON/TL/009/L3	4	40	Estimating	Mandatory
10	CON/TL/0010/L3	4	40	Math skills in Tiling	Mandatory



This qualification is for those interested in developing a career in the construction industry. To gain Level 3 qualification in Tiling and Decorative Stone Work, the Learner must achieve 35 credits from the mandatory units.

