



**Skill India**  
कौशल भारत - कुशल भारत



सत्यमेव जयते  
GOVERNMENT OF INDIA  
MINISTRY OF SKILL DEVELOPMENT  
& ENTREPRENEURSHIP



**NSDF**  
National  
Skill Development  
Corporation

Transforming the skill landscape



# Participant Handbook

Sector  
**Construction**

Sub-Sector  
**Real Estate and  
Infrastructure Construction**

Occupation  
**Masonry**

Reference ID: **CON/Q0104, Version 1.0**  
**NSQF Level 4**



## Mason Tiling

## Acknowledgements

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We are thankful to NSDC for entrusting us with this task of development of Mason tiling Handbook.

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We also acknowledge L&T Construction for providing photographic support for this book.

CEO

## About this book

Construction industry is the second largest employer in India. As one of the leading avenues for employment in the country, the role played by this industry in the economic development of India is pivotal. However, despite its vast potential, the construction Industry faces a key challenge of shortage of skilled manpower. This hampers the progress of the industry, as the quality of constructed structure is poor and most projects failed to get completed within timelines.

There is a vast difference between the required skill and available skills of workers in the industry today. To reduce the skill gap, appropriate skilling of workforce needs to be carried out. This will not only empower the worker but also benefit the construction industry in terms of quality and productivity.

This Participant book is developed to impart training for the skill and knowledge required to work as a Mason Tiling in construction industry. It is designed based on Mason Tiling Qualification Pack under the National skill qualification framework. It comprises of the following NOS/ topics.

- Lay and fix tiles both horizontally and vertically on wall and floor
- Apply grouts and sealants for flooring and cladding works
- Work effectively in a team to deliver desired results at the workplace
- Plan and organize work to meet expected outcomes
- Work according to personal health, safety and environment protocol at construction site

This book is designed considering the lower educational background of the construction worker. Therefore, special efforts have been made to explain the concept required for the job mostly through photos and illustrations.

Units and symbols used in the book have been listed below.

## Symbols Used



Key Learning Outcomes



Steps



Time



Tips



Notes



Unit Objectives

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## UNIT 1.3: Mason tiling - job role and responsibility

## Unit Objectives

**At the end of this unit, you will be able to:**

1. Know about role and duties of a mason tiling;
2. Know about personal and professional attributes under the mason tiling occupation;
3. List QP and NOS details of mason tiling programme; and
4. Know about career path as a mason tiling.

### 1.3.1 Role of a mason tiling

Mason Tiling is responsible for identifying, cutting, grinding, shaping, laying, fixing and finishing the tiles on floors, walls using appropriate tools and equipment and as per the specified standards, patterns and within dimensional accuracy.

As part of the job role, Mason tiling has to perform the following works:

- Measuring and cutting of tile and marble
- Cutting and shaping of tile to fit around corners, obstacles and into odd spaces by using hand and power tools.
- Arrangement of tiles according to design drawings
- Preparing and applying mortar and adhesives
- Installing tile in a planned area
- Applying grout and sealants
- Support team to complete assigned task
- Plan and organise task
- Follow health and safety guidelines while working at construction site

Mason Tiling is expected to perform the following responsibilities while performing the task at work place:

1. Select and use levels, squares and straight edges to align and straighten the tiles.
2. Determine and implement the best layout for a desired pattern of tile.
3. Select and use hand and power tools for cutting and shaping tiles to fit around difficulties, odd spaces and corners.



*Fig 1.3.1: Placing tiles on the surface*

4. Measure and mark areas to be tiled.
5. Place and fix tiles in place using mortar and trowel.
6. Create a bed for the tiles with the help of brush, trowel and screed and mix, apply, and spread plaster, concrete, mortar, cement, mastic, glue or other adhesives.
7. Lay & fix the tiles as per layout.
8. Finish and dress the joints and wipe excess grout from between tiles using damp sponge.
9. Check the line, level and alignment of tiling work.
10. Follow safety, housekeeping and waste disposal practices at the workplace.
11. Communicate effectively with subordinates and seniors.
12. Plan and organise work to achieve desired outcomes.

### 1.3.2 Personal attributes for job role of mason tiling

A mason tiling in addition to his technical skills should also possess certain personal qualities as well. Mason Tiling should:

- Ability to work in a well-organized and accurate manner ;
- Awareness of safety issues ,especially when working at heights;
- Ability to work as a part of team ;
- A good level of fitness ;
- Awareness of personal hygiene ;
- Hard working and reliable ;
- Courteous and dedicated ;
- Good Communication Skills.

### 1.3.3 QP and NOS details for mason tiling

A Qualification Pack (QP) consists of a set of National Occupation Standards (NOS). NOS specify the standard competency a worker must achieve when carrying out a function in the workplace.

The National Skills Qualifications Framework (NSQF) provides the description of professional and functional knowledge and skill along with the responsibility that a person must display for any given competency level. The NSQF describes a total of 10 levels, level 1 being entry level the least complex and level 10 being the top most level.

This programme is based on qualification pack called Mason Tiling. The qualification pack code for Mason tiling is CON/Q0104. Under Mason Tiling QP there are five NOSs which detail the functions to be performed at work site.

NOS CODE	Major Function/Task
CON/N0115	Lay and fix tiles both horizontally and vertically on wall and floor
CON/N0116	Apply grouts and sealants for flooring and cladding works
CON/N8001	Work effectively in a team to deliver desired results at the workplace
CON/N8002	Plan and organize work to meet expected outcomes
CON/N9001	Work according to personal health, safety and environment protocol at construction site



### 1.3.4 Career path for mason tiling

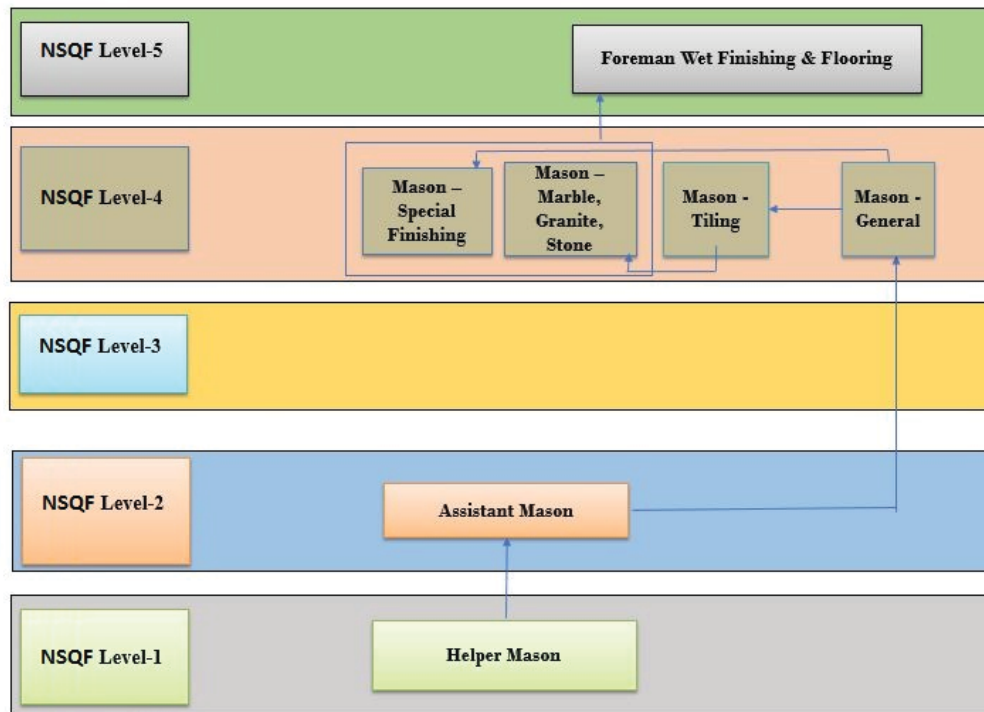


Fig 1.3.3: Career progression for masonry occupation

#### Education & work experience for Mason Tiling

Mason – Tiling	Preferably 5th standard	2 years site experience as a certified General Mason
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Education & work experience required for further career progression for mason tiling		
Job role	Education	Experience
Mason – Marble, granite, stone	Preferably 8th standard	2 years site experience as a certified Mason Tiling
Foreman wet finishing and flooring	Preferably 10th standard	3 years site experience as a certified Mason Special Finishes/Mason Marble, Granite and Stone.

## UNIT 1.4: Training for mason tiling

## Unit Objectives

**At the end of this unit, you will be able to:**

1. Understand the purpose of training;
2. Know about mode and duration of training program; and
3. Understand the benefits of training skill card & certification.

### 1.4.1 Mode and duration of training

The training program is developed to impart specific skills to individuals who wish to work as a Mason Tiling. The training program is based upon qualification pack & National Occupation Standard for Mason tiling.

- Classroom sessions
- Practical sessions



*Fig 1.4.1: Classroom session*



*Fig 1.4.2: Practical session*

The duration of training is around 400 Hrs including both classroom and practical sessions.

### 1.4.2 Benefits after training

The training program will enable an individual to:-

- Identify, shift and stack various materials, tools and equipment used in tiling works
- Measure and mark tiles
- Perform sorting and cutting of tiles

- Lay & fix tiles on wall and floor as per industry requirement.
- Plan and organize working procedures within a team.
- Communicate effectively
- Work according to personal health, safety and environment protocol at construction site.



Fig 1.4.3: Marking as per level

### 1.4.3 Skill card and certification

After successful completion of training and passing the assessment you will be issued a certificate. This will get you an employment as a mason tiling in construction companies or independently. This certificate will help you to get job and earn better wages than an un-certified workmen.



Fig 1.4.4: Skill card



Fig 1.4.5: Skill certificate



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