

QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR CONSTRUCTION INDUSTRY



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What are Occupational Standards (OS)?

- OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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Introduction

Qualifications Pack- Assistant Mason

SECTOR: CONSTRUCTION

SUB-SECTOR: 1. Real Estate (Residential, Factories, Industry, Institutional and Special Economic Zone)
2. Infrastructure (Roads, Railways, Runways & Urban Utilities)
3. Power Generation (Hydro, Thermal & Nuclear)

OCCUPATION: MASONRY

JOB ROLE: ASSISTANT MASON

REFERENCE ID: CON/Q 0102

ALIGNED TO : NCO-2004 / 7122.20 & NCO-2004 / 7133.10

Mason Trade is one of the basic trades in Construction Industry which is Common to all type of Construction and has variance with respect to Specialization and specific requirements of the Project.

Brief Job Description of Assistant Mason Level-2: Individual in this position need to work as semi-skilled category tradesman and perform tasks under instruction and close supervision of Mason Level-3 as Assistant Mason. He is expected to carry out the setting & layout, laying of bricks & blocks, rendering coat plastering, finishing of concrete, fixing doors and windows in a room/cubical while effectively engaging and supervising the Helper Mason under him for all trade relevant tasks. He should ensure trade specific compliance to environment, health and safety aspects

Personal Attributes: **Assistant Mason** should be physically fit and adaptable to work in difficult and tough construction environment while responding to the needs and requirement of the relevant task.



Qualifications Pack For Assistant Mason Level-2

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| Job Details | Qualifications Pack Code | CON/Q 0102 | | |
| | Job Role | Assistant Mason Level-2 | | |
| | Credits(NSQF) | TBD | Version number | 1.0 |
| | Sector | Construction | Drafted on | 10/03/2014 |
| | Sub-sector | 1.Real Estate(Residential, Factories, Industry, Institutional and Special Economic Zone) 2.Infrastructure (Road, Railways, Runways & Urban Utilities) 3.Power Generation (Hydro, Thermal & Nuclear) | Last reviewed on | |
| | Occupation | Masonry | Next review date | 10/03/2015 |

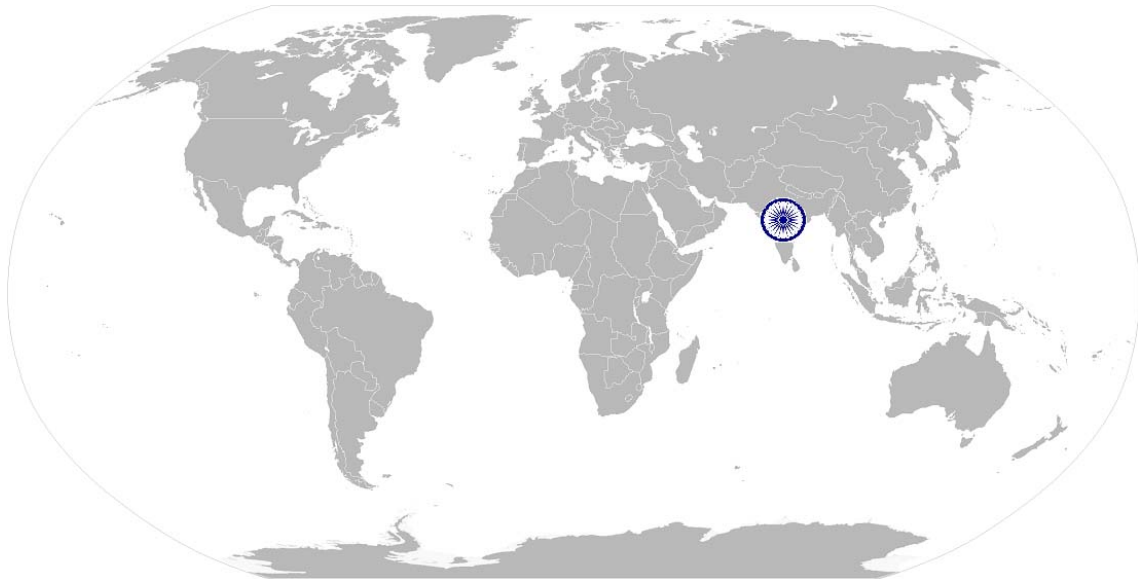
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| Job Role | Assistant Mason Level-2 |
| Role Description | To work as Semi-Skilled Mason to perform all relevant tasks under supervision and guidance of Mason Level-3. He should engage the helper mason suitably and productively under his close supervision. |
| NSQF level | 2 |
| Minimum Educational Qualifications* | Equivalent to 5 th Standard / Helper Mason Level-1 qualified |
| Maximum Educational Qualifications* | Equivalent 12 th Standard |
| Training (Suggested but not mandatory) | Trained to qualify test & assessment by Authorized agency for Behavior, Knowledge & Skill as per all relevant NOS for Assistant Mason level-2. Recommended training period of 6 to 8 weeks for Helper Mason level-I qualified. |
| Experience | <ul style="list-style-type: none"> ➤ Minimum Nine month site experience with Helper Mason Level-I qualified ➤ Minimum Two years site experience for non-trained and non-qualified worker |
| Applicable National Occupational Standards (NOS) | <p>Compulsory</p> <ol style="list-style-type: none"> 1. CON/N0001 : Health, Safety & Environment 2. CON/N0003 : Material Handling & Storing 3. CON/N0006 : Erection and dismantling of 3.6 meter temporary Scaffold 4. CON/N0033 : Building of Brick / Block Foundation & Walls 5. CON/N0034 : Fixing door & window frames in room / cubical 6. CON/N0035 : Methods & Type of Plastering 7. CON/N0036 : Brick soling & PCC Flooring |
| Performance Criteria | As per Occupation Standard (OS) for Level-2 |

Qualifications Pack For Assistant Mason Level-2
Glossary of Key Terms

| Definitions | Keywords /Terms | Description |
|------------------------------|---|---|
| | Sector | Sector is conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests. |
| | Sub-Sector | Sub-Sector is derived from a further breakdown based on the characteristics and interests of its components |
| | Occupation | Occupation is a set of job roles, which perform similar/related set of functions in an industry |
| | Job role | Job role defines a unique set of functions that together form a unique employment opportunity in an organization. |
| | Occupational Standards (OS) | OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet the standard consistently. Occupational Standards are applicable both in the Indian contexts. |
| | Performance Criteria | Performance Criteria are statements that together specify the standard of performance required when carrying out a task. |
| | Qualifications Pack (QP) | Qualifications Pack comprises the set of NOS, together with educational, training and other criteria required to perform a job role. A Qualification Pack is assigned a unique qualification pack code |
| | Qualification Pack Code | Qualification Pack Code is a unique reference code that identifies a qualifications pack. |
| | National Occupational Standards (NOS) | National Occupational Standards which apply uniquely in the Indian context. |
| | Scope | Scope is the set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on the quality of performance required. |
| | Knowledge and Understanding | Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard |
| | Organizational Context | Organizational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility. |
| | Technical Knowledge | Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities. |
| Core Skills / Generic Skills | Core Skills or Generic Skills are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles. | |
| Acronyms | Keywords /Terms | Description |
| | CON | Construction |
| | NSQF | National Skill Qualification Framework |
| | TBD | To be Decided |
| | OS | Occupational Standards |
| | CSDCI | Construction Skill Development Council of India |



National Occupational Standard



Overview

This NOS covers the skill and knowledge required by an individual to be proficient in Health, Safety & Environment parameters relevant to masonry occupation in construction sector.



CON/ N 0001: Health, Safety & Environment

National Occupational Standard

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| Unit Code | CON / N 0001 |
| Unit Title (Task) | Health, Safety & Environment |
| Description | This unit describes the skill and knowledge required to meet various health, safety and environment parameters relevant to masonry occupation in construction sector. |
| Scope | Health, Safety & Environment |
| Performance Criteria(PC) w.r.t. the Scope | |
| Element | Performance Criteria |
| Health, Safety and Environment | <p>To be competent, the user/individual must do the following:</p> <p>PC1.Demonstrate and use Personal Protective Equipment such as Head Protection, Fall Protection, Foot Protection, Face & eye Protection, Ear Protection, Hand & Body Protection and Respiratory Protection.</p> <p>PC2. Follows Do's and Don'ts during working at heights</p> <p>PC3.Carry out various safety measures, mock drills, relevant to task during work and evacuation at emergency.</p> <p>PC4. First Aid Practice such as use of basic dressing materials and bandages, resuscitation practices</p> <p>PC5. Ensure safe waste disposal and pollution control of organic and inorganic waste material, use of sound and noise control and protection methods.</p> <p>PC1 TO PC5 assessments based on viva-voice / interview / quiz test / demonstration technique.</p> |
| Knowledge and Understanding (K) | |
| A. Organizational Context (Knowledge of the company / organization and its processes) | <p>The user/individual on the job should know and understand:</p> <p>KA1. Procedures, guidelines and aim relevant to safety, health and environment parameters</p> <p>KA2. Organizations expectations and Safety procedures at sites</p> <p>KA3. Selection and visual checking of PPEs and knowledge of indent and return procedures.</p> <p>KA4. Various health and safety hazards at the workplace</p> <p>KA5. Reporting procedures on safety violations.</p> |
| B. Technical Knowledge | <p>The user/individual on the job should know and understand:</p> <p>KB1. Procedures for evacuation of workers during emergency</p> <p>KB2. Operation and selection of appropriate PPEs for different working condition.</p> <p>KB3. Health, safety and accident reporting procedures</p> <p>KB4. Identification and use of basic dressing materials and first aid</p> |
| Skills (S) | |
| A. Core Skills/ Generic Skills | Writing Skills |
| | The user/ individual on the job should know and understand how to: SA1. Write and fill the basic EHS format. |
| | Reading Skills |
| The user / individual on the job should know and understand how to: SA2. Read instructions, guidelines, procedures and rules | |
| | Oral Communication (Listening and Speaking skills) |



CON/ N 0001: Health, Safety & Environment

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| | The user / individual should do the following: SA3. Listen carefully SA4. effective oral communication |
| B. Professional Skills | Decision Making |
| | The user / individual on the job should know and understand how to: SB1. Accept appropriate PPEs against different working conditions |
| | Plan and Organize |
| | The user / individual should know and understand how to: SB2. Select and use appropriate PPEs for different working conditions |
| | Customer Centricity |
| | The user / individual should know and understand how to: SB3. Answerable to Mason level-3 |
| | Problem Solving |
| | The user / individual should know and understand how to: SB4. Under guidance of Mason level-3 |
| | Analytical Thinking |
| | The user / individual should know and understand : SB5. Benefit of emergency drills |
| | Critical Thinking |
| | The user / individual should know and understand how to: SB6. Resuscitate the casualty |
| | Attention to Detail |
| | The user / individual should know and understand : SB7. The relevance of performance criteria |
| Team Working | |
| The user / individual on the job should know and understand how to: SB8. Work in coordination with mason level 3 SB9. Take care of coworkers as per requirement and in emergency SB10. Distribute work among workmates. | |



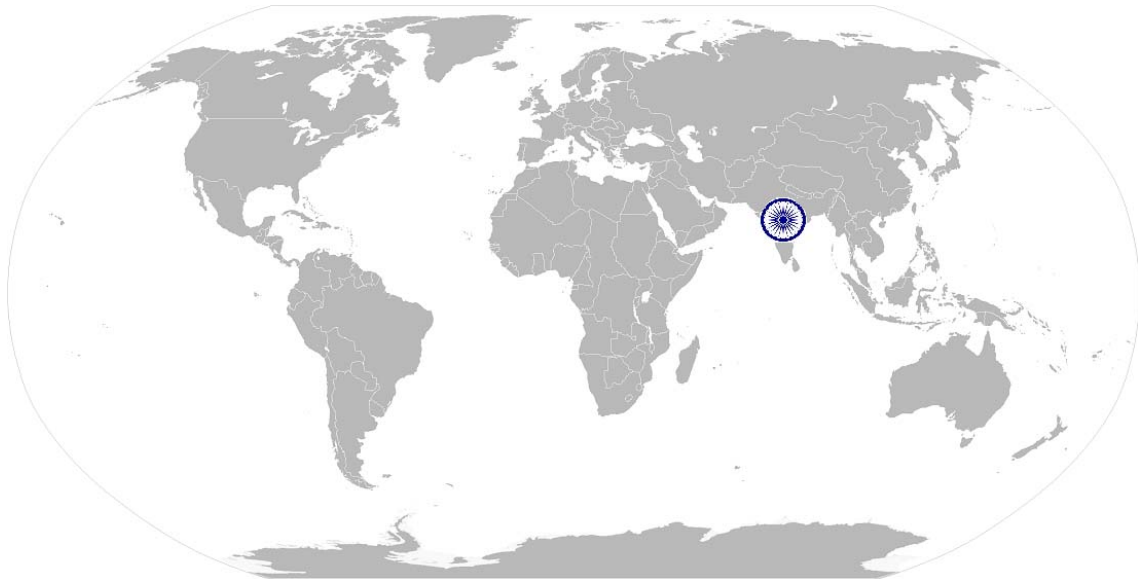
NOS

National Occupational Standards



CON/ N 0003: Material Handling & Storing

National Occupational Standard



Overview

This NOS covers the skill and knowledge required by an individual to be proficient in Material Handling & Storing practices relevant to Masonry Occupation in construction sector.



CON/ N 0003: Material Handling & Storing

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| National Occupational Standard | Unit Code | CON / N 0003 |
| | Unit Title (Task) | Material Handling & Storing |
| | Description | This unit describes the skills and knowledge required for effective Material Handling & Storing practices relevant to masonry occupation in construction industry. |
| | Scope | Material Handling & Storing |
| | Performance Criteria(PC) w.r.t. the Scope | |
| | Element | Performance Criteria |
| | Material Handling & Storing | <p>To be competent, the user/individual must do the following:</p> <p>PC1. Lift & shift the materials by involving push and pull activities in accordance with workplace EHS requirement.</p> <p>PC2. Follow standard methods and sequence of loading, unloading of materials such as cement, steel, sand, aggregate, paint, wood etc.</p> <p>PC3. Lifting, loading and unloading materials effectively as a team and individually also</p> <p>PC4. Carry loose fluid materials like chemicals, form-oil, fuel & admixtures.</p> <p>PC5. Handle different materials such as sand, bricks, blocks & metals</p> <p>PC6. Follow standard practices in storing and stacking cement, steel, wood, aggregate, paints, inflammable and other construction materials.</p> <p>PC7. Shift efficiently materials such as brick, sand, mortar, concrete etc. from the bottom level of temporary scaffolding to the work level</p> <p>PC1 to PC7 are assessment based on performance and efficiency in material handling & storing. It shall be assessed through questions & answers and physical performance within stipulated time.</p> |
| | Knowledge and Understanding (K) | |
| | A. Organizational Context (Knowledge of the company / organization and its processes) | <p>The user/individual on the job should know and understand:</p> <p>KA1. Safety regulation during lifting and carrying.</p> <p>KA2. Arrange easy access path for shifting materials.</p> <p>KA3. Storing and stacking of materials at identified locations.</p> <p>KA4. Procedure of indent and collection of materials from store.</p> <p>KA5. Procedure for return of surplus materials to the store.</p> <p>KA6. Effective supply of materials at work spot.</p> <p>KA7. Housekeeping activities relevant to tasks.</p> |
| | B. Technical Knowledge | <p>The user/individual on the job should know and understand:</p> <p>KB1. Loading and unloading practices of materials.</p> <p>KB2. Handling materials according to its physical properties</p> <p>KB3. Handling and stacking of hazard/inflammable materials.</p> <p>KB4. Stacking of materials by its size, shape and height.</p> <p>KB5. Selection of shortest possible route for shifting material while adhering safety procedures.</p> <p>KB6. Housekeeping procedures relevant to the task.</p> |
| Skills (S) | | |
| A. Core Skills/ Generic Skills | Writing Skills | |
| | <p>The individual on the job should know and understand how to:</p> <p>SA1. Make list of items & materials</p> | |



CON/ N 0003: Material Handling & Storing

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| | Reading Skills |
| | The user/individual on the job should know and understand: SA2. Read instructions, guidelines, sign boards, safety rules & safety tags. |
| | Oral Communication (Listening and Speaking skills) |
| | The user / individual should do the following: SA3. Listen and follow instruction accurately SA4. Effective oral communication |
| B. Professional Skills | Decision Making |
| | The user/individual should know and understand how to: SB1. Decide on manpower requirement for lift or shift of material SB2. Load & unload materials SB3. Shift materials according to its physical properties |
| | Plan and Organize |
| | The user/individual on the job should know and understand how to: SB4. Handle equipments, tools and tackles SB5. Stack and store materials using right sequence and procedure |
| | Customer Centricity |
| | The user/individual on the job should know and understand how to: SB6. Answerable to Mason level-3 |
| | Problem Solving |
| | The user/individual should know and understand how to: SB7. Shift and move heavy materials |
| | Analytical Thinking |
| | The user/individual should know and understand how to: SB8. Protect and stack materials in store and site SB9. Aware of risk involved in manual lifting and handling of materials |
| | Critical Thinking |
| | The user/individual should know and understand how to: SB10. Identify and stack hazard/inflammable materials SB10. Select shortest possible route for material shifting while adhering to safety procedures |
| | Attention to Detail |
| | The user/individual on the job should know and understand how to: SB11. Relevant to performance criteria |
| | Team Working |
| The user/individual should know and understand how to: SB12. Maintain relevant Housekeeping procedures SB13. Report wrong practice observed at workplace relevant to tasks. SB14. Work in coordination with Mason level-3 SB14. Take care of coworkers as per requirement & in case of emergency SB15. Distribute work among workmates | |



CON/ N 0006: Erection and dismantling of 3.6 meter temporary scaffold

National Occupational Standard



Overview

This NOS covers the skills and knowledge required by an individual to proficiently erect and dismantle 3.6 meter temporary scaffold for task relevant to Masonry Occupation in Construction Industry.



CON/ N 0006: Erection and dismantling of 3.6 meter temporary scaffold

National Occupational Standard

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| Unit Code | CON / N 0006 |
| Unit Title (Task) | Erection and dismantling of 3.6 meter temporary scaffold. |
| Description | This unit describes the skill and knowledge required for erection and dismantling of 3.6 meter temporary scaffold. |
| Scope | Erection and dismantling of 3.6 meter temporary scaffold |
| Performance Criteria(PC) w.r.t. the Scope | |
| Element | Performance Criteria |
| Erection and dismantling of 3.6 meter temporary scaffold | <p>To be competent, the user/individual must do the following:</p> <p>PC1: Arrange, shift, and stack the required materials, tools and tackles at the identified location.</p> <p>PC2. Use the required safety gadgets and follow trade safety during erection and dismantling operation.</p> <p>PC3. Erect and dismantle 3.6 meter temporary scaffold within stipulated time</p> <p>PC4. Maintain tidiness at sites.</p> <p>PC1 To PC4 assessment based on their performance and efficiency through questions & answers and physical performance within the stipulated time.</p> |
| Knowledge and Understanding (K) | |
| A. Organizational Context (Knowledge of the company / organization and its processes) | <p>The user/individual on the job should know and understand:</p> <p>KA1. Use of Safety Gears and Safety equipments relevant to personal protection</p> <p>KA2. Working procedure for scaffolding at Heights</p> <p>KA3. Safe working methods and movements while performing relevant tasks</p> <p>KA4. First Aid, Housekeeping & other relevant environmental aspects</p> |
| B. Technical Knowledge | <p>The user/individual on the job should know and understand:</p> <p>KB1. Safety measures followed while working at height</p> <p>KB2. Tools and equipments used for erecting and dismantling 3.6 meter temporary scaffold</p> <p>KB3. Type of Materials used for the task</p> <p>KB4. Process of erecting and dismantling</p> <p>KB5. Process of accessibility & site tidiness.</p> |
| Skills (S) | |
| A. Core Skills/ Generic Skills | Writing Skills |
| | The individual on the job should know and understand how to: SA1. Make list of items & materials |
| | Reading Skills |
| | The individual on the job should know and understand how to: SA2. Read instructions, guidelines, sign boards, safety rules & safety tags. |
| | Oral Communication (Listening and Speaking skills) |
| | The individual on the job should know and understand how to: SA3. Listen and follow instructions. SA4. Communicate effectively |



CON/ N 0006: Erection and dismantling of 3.6 meter temporary scaffold

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| B. Professional Skills | Decision Making |
| | The user/individual on the job should know and understand how to: SB1. Identify and use right materials for the tasks |
| | Plan and Organize |
| | The user/individual on the job should know and understand how to: SB2. Identify and use all relevant safety equipment SB3. Identify and use relevant tools effectively SB4. Organize the scaffolding materials |
| | Customer Centricity |
| | The user/individual SB5. Answerable to Mason level-3 |
| | Problem Solving |
| | The user/individual SB6. Under guidance of Mason level-3 |
| | Analytical Thinking |
| | The user/individual SB7. Relevant to his performance criteria |
| | Critical Thinking |
| | The user/individual on the job should know and understand how to: SB8. Check the stability, alignment and verticality of the scaffold |
| | Attention to Detail |
| | The user/individual on the job should know details: SB9. Relevant to all performance criteria |
| Team Working | |
| The user/individual on the job should know and understand how to: SB10. Erect and dismantle 3.6 meter temporary scaffold SB11. Involvement during housekeeping activities. SB12. Work in coordination with Mason level-3 SB13. Take care of coworkers as per requirement & in case of emergency SB14. Distribute work among workmates | |



CON/ N 0033: Building of Brick / Block Foundation & Walls

National Occupational Standard



Overview

This NOS covers the skills and knowledge required by an individual to be proficient in building brick / block foundation & walls relevant to Masonry Occupation in the Construction sector.

CON/ N 0033: Building of Brick / Block Foundation & Walls

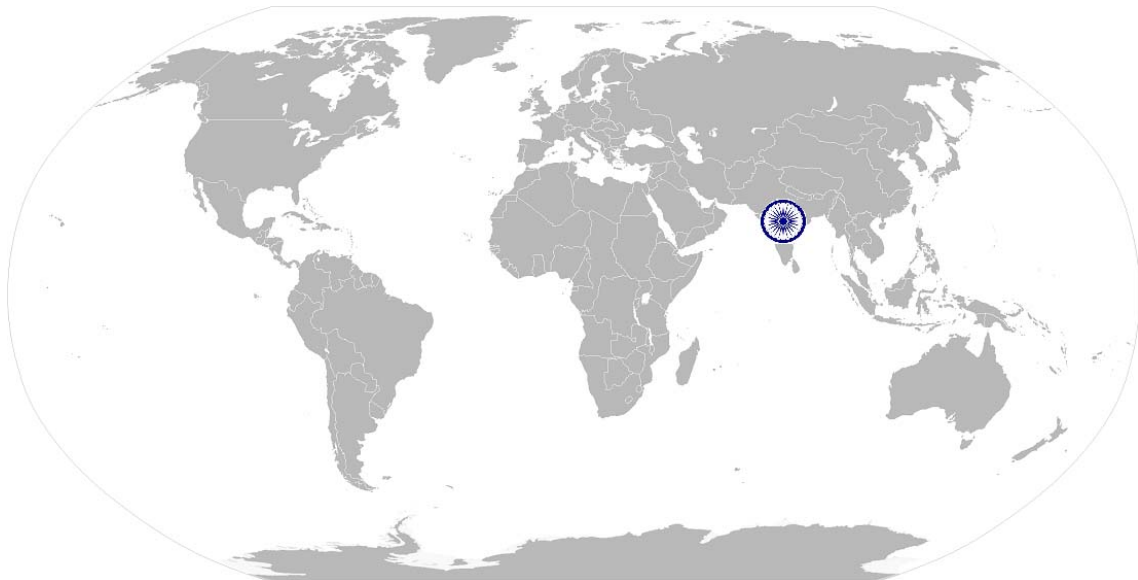
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|--------------------------------|---|---|
| National Occupational Standard | Unit Code | CON / N 0033 |
| | Unit Title (Task) | Building of Brick / Block foundation & walls |
| | Description | This unit describes the skill and knowledge required to build brick / block foundation and walls relevant to masonry occupation for various construction works. |
| | Scope | Building of Brick / Block foundation & walls |
| | Performance Criteria(PC) w.r.t. the Scope | |
| | Element | Performance Criteria |
| | Building foundation / wall in bricks using different type of bonds | <p>To be competent, the user/individual must do the following:</p> <p>PC1. Marking and layout for walls & foundations. PC2. Estimation of required material quantity for given task. PC3. Set brick using known bonds PC4. Build one brick straight wall using English bond. PC5. Build one brick & one and half brick corner wall using English bond PC6. Build one and one and half brick wall T-Junction using English bond PC7. Build one brick straight wall using Flemish bond PC8. Build one brick 'T' Junction using Flemish bond PC9. The tolerance limit for PC4 to PC8 shall be as given below:</p> <ul style="list-style-type: none"> • Overall length of wall should be $\pm 4\text{mm}$ • Length of perpendicular wall should be $\pm 4\text{mm}$ • Regular joint thickness should be $\pm 3\text{mm}$ • Level to top course should be $\pm 5\text{mm}$ • Internal squareness – fair side should be $\pm 4\text{mm}$ • Squareness – other side should be $\pm 5\text{mm}$ • Plumb to overall height should be $\pm 5\text{mm}$ • Wall alignment should be $\pm 5\text{mm}$ in 3m • Pointing on both faces should be acceptable |
| | Building wall & corner using different type of blocks | <p>PC9. Identify different types of block (Concrete/Fly Ash/ Hollow / Light weight etc.) PC10. Use blocks as per requirement PC11. Lay the blocks in straight wall corner PC12. Layout and erection of straight wall and corners PC13. Pointing on both face of wall</p> |
| | Knowledge and Understanding (K) | |
| | A. Organizational Context (Knowledge of the company / organization and its processes) | <p>The user/individual on the job should know and understand:</p> <p>KA1. Use of Safety Gears and Safety equipments relevant to personal protection KA2. Working procedure for scaffolding at Heights KA3. Safe working methods and movements while performing the tasks KA4. First Aid, Housekeeping & other relevant environmental aspects</p> |

CON/ N 0033: Building of Brick / Block Foundation & Walls

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| B. Technical Knowledge | <p>The user/individual on the job should know and understand:</p> <p>KB1. Quality of bricks KB2. Soaking of bricks KB3. Use of measuring tape KB4. Type of bonds and closures KB5. Face appearance and arrangements of bricks in different type of bonds KB6. Vertical, Horizontal joints and the required mortar thickness & mortar proportions KB7. Filling of RCC beam/column & masonry joints/gaps with non-shrink materials & pebbles KB8. Tolerance</p> |
| Skills (S) | |
| A. Core Skills/ Generic Skills | Writing Skills |
| | The individual on the job should know and understand how to: SA1. Make list of items & materials |
| | Reading Skills |
| | The individual on the job needs to know and understand how to: SA2. Read instructions, guidelines, sign boards, safety rules & safety tags. |
| | Oral Communication (Listening and Speaking skills) |
| | The individual on the job should know and understand how to: SA3. Listen and follow instructions. SA4. Communicate effectively |
| B. Professional Skills | Decision Making |
| | The user/individual on the job should know and understand how to: SB1. Identify and use right materials for given tasks |
| | Plan and Organize |
| | The user/individual on the job should know and understand how to: SB2. Arrange materials as per instructions of trade senior SB3. Mark layout on ground |
| | Customer Centricity |
| | The user/individual on the job: SB4. Answerable to Mason level-3 for relevant performance criteria |
| | Problem Solving |
| | The user/individual on the job should work: SB5. Under guidance of Mason level-3 |
| | Analytical Thinking |
| | The user/individual on the job should know and understand how to: SB6. Lay bricks in sequence for different bonds SB7. Place mortar in brickwork |
| Critical Thinking | |
| The user/individual on the job should know and understand how to: SB8. Check alignment, verticality and levels SB9. Check the joint thickness | |

CON/ N 0033: Building of Brick / Block Foundation & Walls

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| | Attention to Detail |
| | The user/individual on the job should know and understand how to: SB10. Minimize wastage of material SB11. Maintain work area free of impurities |
| | Team Working |
| | The user/individual on the job should know and understand how to: SB12. Work in coordination with mason level - 3 SB13. Take care of coworkers as per requirement & in case of emergency SB15. Distribute work among workmates |





CON/ N 0034: Fixing Door & Window frames in room / cubical

National Occupational Standard



Overview

This NOS covers the skills and knowledge required by an individual to be proficient in fixing door and window frames in room / cubical relevant to Masonry Occupation in Construction Sector.



CON/ N 0034: Fixing Door & Window frames in room / cubical

National Occupational Standard

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| Unit Code | CON / N 0034 |
| Unit Title (Task) | Fixing door & window frames in room / cubical |
| Description | This OS describes the skill and knowledge required to fix door and window frame effectively in room / cubical of structures. |
| Scope | Fixing Door & Window frame in room / cubical |
| Performance Criteria(PC) w.r.t. the Scope | |
| Element | Performance Criteria |
| Fixing Door & Window frame in room / cubical | <p>To be competent, the user/individual must do the following:</p> <p>PC1. Mark, layout and build room / cubical including door and window.</p> <p>PC2. Estimate required quantity of material for given task</p> <p>PC3. Check the holdfast position and grout it between bricks / blocks of wall</p> <p>PC4. Join wooden / aluminum rough ground for door and window fixing</p> <p>PC5. Fill the gap between wall and door frame with non-shrink material</p> <p>PC6. The tolerance limit for PC4 to PC5 shall be as given below:</p> <ul style="list-style-type: none"> • Frame location should be $\pm 4\text{mm}$ • Frame alignment should be $\pm 2\text{mm}$ • Frame verticality (Plumb) should be $\pm 2\text{mm}$ • Frame top level horizontal should be $\pm 2\text{mm}$ • Consistent gap between frame and wall should be $\pm 5\text{mm}$ • Consistent gap between frame and lintel should be $\pm 5\text{mm}$ • Consistent gap between frame and sill should be $\pm 4\text{mm}$ • Hold fast / Rawl plugs location & grouting as per instruction • Protection to alignment should be firm • Sequence, finish and housekeeping should be acceptable |
| Knowledge and Understanding (K) | |
| A. Organizational Context (Knowledge of the company / organization and its processes) | <p>The user/individual on the job should know and understand:</p> <p>KA1. Use of Safety Gears and Safety equipments relevant to personal protection</p> <p>KA2. Working procedure for scaffolding at Heights</p> <p>KA3. Safe working methods and movements while performing the tasks</p> <p>KA4. First Aid, Housekeeping & other relevant environmental aspects</p> |
| B. Technical Knowledge | <p>The user/individual on the job needs to know and understand:</p> <p>KB1. Simple technical drawing principle relevant to task</p> <p>KB2. Standard size of door / window, type of materials and fittings used</p> <p>KB3. Method and sequence of relevant work</p> <p>KB4. Set out levels relevant to task</p> |
| Skills (S) | |
| A. Core Skills/ Generic Skills | Writing Skills |
| | The individual on the job should know and understand how to: |
| | SA1. Relevant geometric knowledge and calculation |
| | Reading Skills |



CON/ N 0034: Fixing Door & Window frames in room / cubical

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| | The individual on the job should know and understand how to: SA2. Read instructions, guidelines, sign boards, safety rules & safety tags. |
| | Oral Communication (Listening and Speaking skills) |
| | The individual on the job should know and understand how to: SA3. Listen and follow instruction SA4. Communicate effectively |
| B. Professional Skills | Decision Making |
| | The user/individual on the job should know and understand how to: SB1. Take decision under guidance of Mason level-3 |
| | Plan and Organize |
| | The user/individual on the job should know and understand how to: SB2. Arrange Required material, tools and accessories |
| | Customer Centricity |
| | The user/individual on the job should know and understand how to: SB3. Be answerable to Mason level-3 |
| | Problem Solving |
| | The user/individual on the job should know and understand how to: SB4. Solve difficulties related to tolerance & alignment |
| | Analytical Thinking |
| | The user/individual on the job should know and understand how to: SB5. To estimate required materials and tools |
| | Critical Thinking |
| | The user/individual on the job should know and understand how to: SB6. Resolve matters related to performance criteria |
| | Attention to Detail |
| | The user/individual on the job should know and understand how to: SB7. Relevant to performance criteria |
| | Team Working |
| | The user/individual on the job should know and understand how to: SB8. Work in coordination with trade senior SB9. Take care of coworkers as per requirement & in case of emergency SB10. Distribute work among workmates |



CON/ N 0035: Methods & Type of Plastering

National Occupational Standard



Overview

This NOS covers the skills and knowledge required by an individual to be proficient in plastering work relevant to Masonry Occupation in Construction Sector.

CON/ N 0035: Methods & Type of Plastering

National Occupational Standard

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| Unit Code | CON / N 0035 |
| Unit Title (Task) | Methods & Type of Plastering |
| Description | This OS describes the skill and knowledge required for plastering, relevant materials and various surfaces |
| Scope | Methods & Type of Plastering |
| Performance Criteria(PC) w.r.t. the Scope | |
| Element | Performance Criteria |
| Methods & Type of Plasters | <p>To be competent, the user/individual must do the following:</p> <p>PC1. Identify and use plastering tools and equipments.</p> <p>PC2. Identify different type of plastering materials e.g. cement / lime based</p> <p>PC3. Prepare mortar as per given ratio</p> <p>PC4. Fix chicken mesh & non-shrink material with pebbles in joints on concrete and brick wall joints</p> <p>PC5. Set out the button mark position</p> <p>PC6. Carry out plain face plaster (Single Coat and Double Coat Plaster)</p> <p>PC7. The tolerance limit for PC3 to PC6 shall be as given below:</p> <ul style="list-style-type: none"> Plaster thickness should be $\pm 3\text{mm}$ Surface evenness should be $\pm 3\text{mm}$ Plumb to overall height should be $\pm 2\text{mm}$ Corner straightness should be truly straight |
| Knowledge and Understanding (K) | |
| A. Organizational Context (Knowledge of the company / organization and its processes) | <p>The user/individual on the job should know and understand:</p> <p>KA1. Use of safety gears and safety equipments relevant to personal protection</p> <p>KA2. Working procedure for scaffolding at heights</p> <p>KA3. Safe working methods and movements while performing relevant tasks</p> <p>KA4. First Aid, Housekeeping & other relevant environmental aspects</p> |
| B. Technical Knowledge | <p>The user/individual on the job should know and understand:</p> <p>KB1. Different type of plasters</p> <p>KB2. Various type of pointing</p> <p>KB3. Defect on plaster</p> |
| Skills (S) | |
| A. Core Skills/ Generic Skills | Writing Skills |
| | The individual on the job should know and understand: |
| | SA1. Relevant geometry and calculation |
| | Reading Skills |
| | The individual on the job should know and understand how to: |
| | SA2. Read instructions, guidelines, sign boards, safety rules & safety tags. |
| | Oral Communication (Listening and Speaking skills) |
| | The individual should know and understand how to: |
| | SA3. Listen and follow instruction |
| | SA4. Communicate effectively |



CON/ N 0035: Methods & Type of Plastering

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| B. Professional Skills | Decision Making |
| | The user/individual on the job should know and understand how to: SB1. Identify and use right material for task |
| | Plan and Organize |
| | The user/individual on the job should know and understand how to: SB2. Identify and organize relevant safety equipments SB3. Organize required tools and materials SB4. Prepare mortar as per requirement |
| | Customer Centricity |
| | The user/individual on the job should be: SB5. Answerable to Mason level-3 with reference to performance criteria |
| | Problem Solving |
| | The user/individual on the job should work: SB6. Under guidance of Mason level-3 |
| | Analytical Thinking |
| | The user/individual on the job should act: SB7. As per performance criteria |
| | Critical Thinking |
| | The user/individual on the job should know and understand how to: SB8. Ensure compliance of water cement ratio of mortar |
| | Attention to Detail |
| The user/individual on the job should know and understand how to: SB9. Avoid wastage of materials | |
| Team Working | |
| The user/individual on the job should know and understand how to: SB10. Work in coordination with mason level-3 SB11. Take care of coworkers as per requirement & in case of emergency SB12. Distribute work among workmates | |



CON/ N 0036: Brick soling & PCC Flooring

National Occupational Standard



Overview

This NOS covers the skills and knowledge required by an individual to be proficient in brick soling and PCC flooring relevant to Masonry Occupation in Construction Sector.

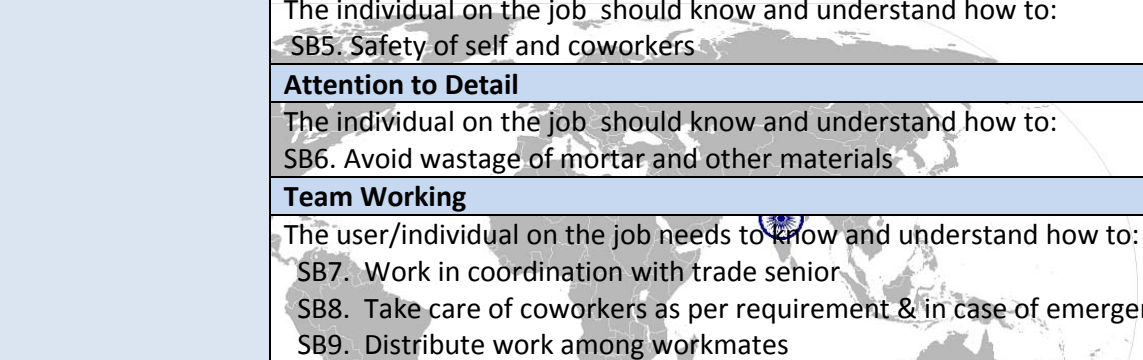


CON/ N 0036: Brick soling & PCC Flooring

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| Unit Code | CON / N 0036 |
| Unit Title (Task) | Brick soling & PCC Flooring |
| Description | This unit describes the skill and knowledge required for efficient brick soling and PCC flooring work relevant to masonry occupation in construction sector. |
| Scope | Brick soling and PCC Flooring |
| Performance Criteria(PC) w.r.t. the Scope | |
| Element | Performance Criteria |
| Brick Soling | To be competent, the user/individual must do the following: PC1. Leveling and compaction of back filling as per requirement PC2. Soaking of bricks before lay PC3. Fill gap in bricks with sand / suitable filling material PC4. Check the level of finished surface |
| PCC Flooring | PC5. Carry out surface preparation PC6. Carry out the screeding PC7. Fixing glass / PVC stiffers on floors PC8. Place concrete / mortar in the panels as specified |
| Knowledge and Understanding (K) | |
| A. Organizational Context (Knowledge of the company / organization and its processes) | The user/individual on the job should know and understand: KA1. Use of Safety Gears and Safety equipments relevant to personal protection KA2. Working procedure for scaffolding at Heights KA3. Safe working methods and movements while performing the tasks KA4. First Aid, Housekeeping & other relevant environmental aspects |
| B. Technical Knowledge | The user/individual on the job needs to know and understand: KB1. Screed System KB2. Different type of flooring KB3. Ratio for Plain cement concrete |
| Skills (S) | |
| A. Core Skills/ Generic Skills | Writing Skills |
| | The individual on the job should know and understand: SA1. Relevant geometry and calculation |
| | Reading Skills |
| | The individual on the job should know and understand how to: SA2. Read instructions, guidelines, sign boards, safety rules & safety tags. |
| | Oral Communication (Listening and Speaking skills) |
| | The individual on the job should know and understand how to: SA3. Listen and follow instruction SA4. Communicate effectively |
| | B. Professional Skills |
| | Decision Making |
| | The individual on the job should know and understand how to: SB1. Maintaining performance criteria specification as per instruction of Mason level-3 |



CON/ N 0036: Brick soling & PCC Flooring

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|  | Plan and Organize |
| | The individual on the job should arrange: SB2. Tools and equipments required for task SB3. material for filling and compaction |
| | Customer Centricity |
| | The individual on the job reports to: SB3. Mason level-3 |
| | Problem Solving |
| | The individual on the job should know how to: SB4. deal as per specified performance requirement |
| | Analytical Thinking |
| | The individual on the job should know how to: SB5. perform as per specified performance requirement |
| | Critical Thinking |
| | The individual on the job should know and understand how to: SB5. Safety of self and coworkers |
| | Attention to Detail |
| | The individual on the job should know and understand how to: SB6. Avoid wastage of mortar and other materials |
| Team Working | |
| The user/individual on the job needs to know and understand how to: SB7. Work in coordination with trade senior SB8. Take care of coworkers as per requirement & in case of emergency SB9. Distribute work among workmates | |

Assessment Criteria for Assistant Mason

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| Job Role | Assistant Mason |
| Qualification Pack | CON/Q0102 |
| Sector Skill Council | Construction |

Guidelines for Assessment

1. Criteria for assessment for Qualification Pack has been created based on the NOSs and performance criteria by CSDCI. Each Performance Criteria (PC) has been assigned marks proportional to its importance within NOS and weightages have also been given among the NOSs accordingly. CSDCI has laid down the proportion of marks for Skills, Theory/Knowledge and Behaviour / Attitudes for each PC.
2. The assessment of the theory/knowledge will be based on written test/viva-voce or both while skill test shall be hands on practical. Behaviour and attitude will be assessed while performing the task.
3. The assessment shall be done as per the assessment sheets devised by CSDCI and accordingly the assessment agencies in consultation with CSDCI will create unique question papers for theory/knowledge and attitude for each candidate at each CSDCI accredited testing centres (as per assessment criteria below).
4. The assessment agencies will conduct the assessment as per the guidelines given by CSDCI giving unique evaluations for skill & knowledge for every student at each CSDCI accredited testing centre.
5. To pass the Qualification Pack, every trainee should score a minimum of **80% in Skill, 50% in Knowledge & Behaviour and 50% in Written test** separately in each attribute. In addition he should pass in each **NOS with minimum 40% marks**.
6. Each student at Level-2 has to pass in Skill, Knowledge and Behaviour as per the percentage given below in totality while individual failing to score **minimum pass marks of 40% in any one of the NOS** then he will have to **re-appear for that one NOS only within 60 days** of his test for final certification. After 60 days he will have to appear in all NOSs.

| S. No. | NOS No. | NOS Name | Total Marks | Marks Allocation | | |
|----------------------------------|-----------|--|-------------|--------------------|-----------------------------------|------------------|
| | | | | Skills (Practical) | Knowledge & Behaviour (Viva Voce) | Theory (Written) |
| 1 | CON/N0001 | Health, Safety & Environment | 22 | 15 | 5 | 2 |
| 2 | CON/N0003 | Material Handling & Storing | 31 | 24 | 4 | 3 |
| 3 | CON/N0006 | Erect and dismantle 3.6 meter temporary scaffold | 23 | 17 | 3 | 3 |
| 4 | CON/N0033 | Building of Brick/Block Foundation & Walls | 37 | 28 | 5 | 4 |
| 5 | CON/N0034 | Fixing door & window frames in room / cubical | 39 | 30 | 5 | 4 |
| 6 | CON/N0035 | Methods & Types of Plastering | 37 | 28 | 5 | 4 |
| 7 | CON/N0036 | Brick Soling & PCC Flooring | 36 | 28 | 5 | 3 |
| Total | | | 225 | 170 | 32 | 23 |
| Percentage weightage | | | | 76% | 14% | 10% |
| Minimum Pass % to qualify | | | | 80% | 50% | 50% |

Note: Minimum 40% marks mandatory to pass in individual NOSs.