**NSDA Reference**

To be Added by NSDA

CONTACT DETAILS OF THE AWARDING BODY FOR THE QUALIFICATION

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| 1. **Name and address of awarding body:**   **National Academy of RUDSETI**  **Chitrapur Bhavan**  **15th Cross, 8th Main**  **Malleswaram**  **Bengaluru- 560 055**  **Ph: 080- 2346 2875**  **Email:** [**info@rudsetacademy.org**](mailto:info@rudsetacademy.org)   1. **Name and contact details of the Individual dealing with the submission:**   **Name: Sri. R. R. Singh**  **Position in the Organization**: **Director General**  **Address:** Same as above  **Email:** [**dg@rudsetacademy.org**](mailto:dg@rudsetacademy.org)   1. **List of Documents submitted in support of the Qualifications file (Annexure)** 2. **About National Academy of RUDSET** 3. **RUDSETI Model of Entrepreneurship Development** 4. **Curriculum document /Syllabus** 5. **Session Plan** 6. **Bank wise list of RSETIs** 7. **Research Studies regarding RUDSETI/RSETI** |

# SUMMARY

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| **Qualification Title:** **Masonry and Concrete Works** |
| **Qualification Code: NARQ30055-PROCESS** |
| **Nature and purpose of the qualification:** Qualification enables the trainee to set up their own unit in Masonry and concrete works. According to NSSO Data (2013) among workers in rural areas, 54.2% are self-employed and 38.6% work as casual labor, where as only 7.2% have regular wage employment. Most of the self employed are engaged in agriculture and have very little formal skills both in farm and non-farm occupations. Hence, the need to skill rural youth so that the next generation of workers become skilled, productive and contribute positively for the growth of the economy. |
| **Body/bodies which will award the Qualification: National Academy of RUDSETI, Bengaluru**  The National Academy of RUDSETI was established in April 2009 in response to an emerging need for capacity building and mentoring of more than 585 Rural Self Employment Training Institutes (RSETIs) established in each district of the country as joint venture between different Banks and the Ministry of Rural Development, Government of India to work as National Level Resource Organization for RUDSETIs and RSETIs and other similar type of Institutes   1. To design and conduct training programmes and undertake project in Enterprise Promotion, Rural Development, Technology Transfer and imparting Human Resource Development (HRD) concepts. 2. To conduct research and development work in the field of Entrepreneurship Development 3. To act as a advisory to policy makers relating to Enterprise Promotion and Rural Development (for Government /NGOs/ Other Organizations / Financial Institutions /Corporate Entities / Central Secretariat, RUDSETI) 4. To take up any other activities connected with Rural Development and Entrepreneurship Development and Rural Development. 5. To provide Consultancy and Counseling Services in the field of Entrepreneurship Development and Rural Development. 6. Any other activity aimed at Development of Entrepreneurship, Rural Development and serving the society at large.   **(**See Annexure I for a complete profile of NAR and Annexure II for RUDSETI model of Entrepreneurship Development) |
| **Body which will accredit providers to offer courses leading to the qualification:**  National Academy of RUDSETI, Bengaluru |
| **Body/bodies which will be responsible for assessment:**  National Academy of RUDSETI, Bengaluru |

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| **Occupation(s) to which the qualification gives access:**  This qualification will enable the trainee to establish a unit in Masonry & Concrete Work of his own for undertaking Masonry installation work and setup a contracting unit in due course and employing some more people to cater to the demands of work taken on contract basis. Besides this the candidate will be able to acquire and internalize the required Entrepreneurial Competencies (skill as well as attitude).   1. Knowledge and techniques for identifying the business opportunities, selection of an entrepreneurial activity, launching of the venture and skills for managing a Micro Enterprise. 2. Build confidence in one’s own abilities |
| **Proposed level of the qualification in the NSQF:**  Level 3 |
| **Anticipated volume of training/learning required to complete the qualification:**  240 hours  See Annexure III & IV for curriculum document and Session Plan |
| **Entry requirements / recommendations:**  Male Candidates in the age group of 18 to 45 years having inclination for taking up Masonry & Concrete Work as a self employment occupation. |
| **Progression from the qualification:**  This qualification will enable the trainees to become Self Employed as well as wage employed by working in Masonry and Concrete work. In due course they will graduate to become an entrepreneur as a Contractor through expansion thereby providing employment to others also. |
| **Planned arrangements for the Recognition of Prior learning (RPL):**  Not applicable |
| **International comparability where known:**  **------** |

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| **Formal structure of the Qualification** | | | |
| Masonry and Concrete Work | **Mandatory/**  **Optional** | **Estimated Size**  **(learning hours)** | **Level** |
| **Professional Knowledge**  **A - Entrepreneurship**   1. Knowledge of self-confidence , attitude 2. Entrepreneurial competencies 3. Banking, insurance , financial accountancy and management 4. Legal aspects ,regulatory aspects of SMEs   **B – Technical Knowledge**  **Candidate is able to know**   1. Introduction to Tools and their uses 2. Introduction to safety measures 3. PCC Bed and Concrete Foundation 4. Introduction to Basic Materials –stones, Bricks & clay products, Cement blocks, cement, Sand, Lime, Jelly, steel etc., 5. Introduction to water specification requirements, CRS stone masonry 6. Introduction to laying of damp proof course 7. Introduction to Measurements, Mixing of Mortar, Laying and Placing. 8. Introduction to Field Testing of Materials. 9. Identification, selection and practical uses of masonry tools. 10. Introduction to Soil classification and Bearing capacities, Anti Termite Treatment. 11. Introduction to Building components- Foundation, Basement, Lintel, Slab, Ceiling, Windows, Doors, Ward robes, Kitchen, Toilet etc.. 12. Introduction to Building layout 13. Ingredients and types of Mortars and their properties 14. Theory on Stone Masonry, Brick Masonry and Concrete 15. Introduction to concrete – ingredients on their specification, mixing and conveying. 16. Types of brick masonry, construction, bonds and specifications 17. Knowledge of concreting of footings, columns, lintels, sunshades, beams, slabs, stairs and related plastering work 18. Knowledge of pipes used in building construction 19. Knowledge of cross junction on English bond 20. Introduction to Fixation of Door and Window frames etc., 21. Introduction to Plastering work (Types- Plastering of wall surfaces, roofs) 22. Introduction to Flooring work | Mandatory  Mandatory | 32 hours  30 hours | Level 3  Level 3 |
| **Professional / Technical Skills**  **Candidate is able to work/perform**   1. Use/ operate and maintain different hand tools, machineries and equipments 2. Take measurements areas and cubical contents, mixing of mortar, laying and placing 3. Test different materials in the field 4. Lay damp proof course by using chemicals 5. Classify soils of different types, their bearing capacities 6. Carryout anti termite treatment 7. Prepare the building layout construction plan 8. Carry out foundation work up to DPC level 9. Identify different building components and usage of the same 10. Construct brick corner and T Junction wall 11. Mix the concrete with appropriate ingredients 12. Construct one and half brick corner wall 13. Construct brick walls, construction of bonds 14. Construction of one and half brick and brick T Junction 15. To place consolidate and cure concrete mortar 16. Fixation of doors and window frames 17. Able to concrete the footings, columns, lintels, sunshades, beams, slabs, stairs, plastering and pointing walls 18. Fixation of tiles for flooring 19. Construction of attached and detached piers in brick masonry 20. Carry out plastering on straight wall with cement and mortar 21. Construction of junction manhole 22. Carry out CRS stone masonry 23. Flooring with vitrified / granite tiles 24. Construction of L wall in stretcher bond 25. Construction of block work for corner and T junction 26. Construction of cross junction in English Bond 27. Use adhesive solvents, joint pillars, rubber and plastics at appropriate levels 28. Plastering and pointing walls 29. Plastering of ceilings 30. Calculate quantum of work done | Mandatory | 138 hours | Level 3 |
| **Core Skills**   1. Business Opportunity Identification 2. Market Survey and Business Plan Development 3. Planning and Risk Assessment 4. Problem solving 5. Time management 6. Communication 7. Business Management skills | Mandatory | 34 hours | Level 3 |
| **Admission, Evaluation test & Valedictory** | Mandatory | 6 hrs | - |
| **Total Duration of the Course** |  | **240 hrs** | |

**SECTION 1 – ASSESSMENT**

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| **Body/Bodies which will carry out assessment:**  This qualification will be used by 585 RSETIs (list is furnished in Annexure IV) across the country which has been established in each district. These RSETIs are controlled by commercial banks (both Government owned and Private). NAR is a separate body and there is no linkage in management and control between the RSETIs offering the training and NAR which will conduct the assessment. The assessment of outcome of the qualification will be done by NAR which is an independent organization. It is run by professionals who are expert in rural entrepreneurship development. In NAR there will be a separate vertical similar to ‘Controller of Examinations’ in Universities, which will conduct the assessment through its empanelled assessors at the RSETI level. The empanelled assessors will be provided training by NAR.  **How will RPL assessment be managed and who will carry out?**  Not Applicable  **Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, reliable and fair and show that these are in line with the requirements of NSQF.**  Assessment tools for the Qualification are decided on the basis of composition of knowledge and skill in that particular Course. All assessments shall have at least two tools viz.1. Practical test and 2. Written test and/or Viva.   1. **Assessment process:**   The assessment will be primarily carried out by collecting evidence of competence gained by the trainees by observing them at work, asking questions and initiating formative discussions to assess understanding and by evaluating their practical work. The question papers for the theory Examinations contain objective/descriptive type questions, drawings etc.  **Minimum pass mark:** Overall 50% of marks allotted   1. **Testing and certifications for the course:**   Arrangements will be made by NAR to ensure that the evidence on which assessment / judgments made are comparable for all trainees and that the judgments made does not vary from assessor to assessor. Arrangements relating to the conduct and monitoring process of assessment are as follows:   * Questions papers will be prepared by NAR in consultation with vocation experts in the field. * Structured tests at the Institute level will be administered in the presence of the assessors. * The tests will be supervised and monitored at every Centre * Theory and practical Examinations will be carried out with invigilators/examiners with the overall supervision of the certified assessors. * Examiners called for evaluation of practical will have technical expertise in the field |

**ASSESSMENT EVIDENCE**

**Assessment & Evaluation:**

The trainees will be assessed through a structured test process. The test will comprise of both written, practical and viva voce. Standard question paper will be devised keeping in view the expected outcome of the training. The test will be administered by certified and empanelled assessors at RSETI level. The technical skill component will be tested through practical examination. Both of these tests will be followed by personal interview wherein the entrepreneurial competencies will be tested. The extent of internalization of the inputs given will be tested. The face-to-face interview will assess the overall ability of the trainee concerned to perform the defined job role including behavioral aspects of entrepreneurial competencies. On getting the results of these tests from the assessors at ground level, a senior expert in entrepreneurship at NAR, Bengaluru will review the marks and on his validation, system generated certificates will be issued to the successful candidates online.

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| **Entrepreneurship Development: Covering Professional Knowledge Part A and Core Skills** | | | | |
| **Assessable Outcomes** | **Performance Criteria** | **Assessment Criteria** | | |
| **Total** | **Theory** | **Practical** |
| 1. Candidate is clearly able to differentiate between Wage employment, Self-employment and Entrepreneurship 2. Understand, appreciate and develop the self-confidence for embarking on self-employment / entrepreneurship. 3. Understand and internalize entrepreneurial competencies and know their importance for becoming a successful entrepreneur. 4. Trainee is able to understand the legal and regulatory aspects of launching an enterprise. 5. Trainee is able to appreciate need for continuous growth and expansion of an enterprise 6. Trainee is able to analyze major trends in a given economic sector / sub-sector and identify Business Opportunities 7. Trainee is able to conduct market survey and develop sound Business Plans based on obtained data. 8. Develop effective personal management skills like time management and communication skills. 9. Knows to maintain simple books of accounts and prepare financial statement for small business 10. Trainees able to devise a simple marketing and sales strategies and plan for a small business 11. Trainees able to manage small team of workers required for managing a small business | **PC 1** – Understanding the Context and Need for Rural Entrepreneurship Development, Role of RSETIs | 1 | 1 | 0 |
| **PC 2** – Developing Self Confidence and Positive Attitude (Micro Lab & Tower Building) | 2 | 1 | 1 |
| **PC 3** – Comparative Advantages of Entrepreneurship and Self Employment over Wage Employment | 1 | 1 | 0 |
| **PC 4** – Understanding and self evaluation of Achievement Motivation and ways and improve motivation (SRQ) | 6 | 2 | 4 |
| **PC 5** - Understanding and internalizing entrepreneurial competencies | 5 | 3 | 2 |
| **PC 6** - Understanding the Concept of Risk Taking and Ability to do Risk Assessment (Ring Toss Game) | 3 | 1 | 2 |
| **PC 7** - Understanding the importance of Systematic Planning and Efficiency Orientation (Boat Building) | 2 | 1 | 1 |
| **PC 8** - Being able to understand the importance of Quality Assurance and Improvement in Business | 2 | 1 | 1 |
| **PC 9** - Understanding the process of steps in Problem Solving | 3 | 2 | 1 |
| **PC 10 –** Time Management – Understanding of Basic Concepts and ability to manage time | 3 | 2 | 1 |
| **PC 11 –** Effective Communication Skills – Understanding of Basic Concepts and ability | 2 | 1 | 1 |
| **PC 12** – Ability to assess market conditions and indentify appropriate business opportunities | 3 | 3 | 0 |
| **PC 13** - Ability to Conduct Market Survey on a limited scale in a given area of Business | 7 | 3 | 4 |
| **PC 14** – Understanding of Banking & Insurance and how it can help a start up enterprise | 6 | 3 | 3 |
| **PC 15** – Ability to Prepare Business Plan based on data obtained from Market Survey | 16 | 6 | 10 |
| **PC 16** – Understanding licensing and regulatory aspects of launching an enterprise. | 3 | 3 | 0 |
| **PC 17** – Ability to Maintain Books of Accounts and Develop Financial Statements for a Small Business | 8 | 6 | 2 |
| **PC 18** – Understanding and ability for Inventory and Materials Management | 5 | 3 | 2 |
| **PC 19** – Understanding and ability for Sales and Marketing | 7 | 4 | 3 |
| **PC 20** – Human Resource Management – Understanding of Concepts and ability to manage a team | 5 | 3 | 2 |
| **PC 21** - Understanding of Basic Laws relating to MSMEs | 5 | 5 | 0 |
| **PC 22** – Growth and Strategic Planning - Understanding of Concepts | 5 | 5 | 0 |
| **Total EDP** | **100** | **60** | **40** |

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| **Assessable Outcomes** | **Performance Criteria** | **Assessment Criteria** | | |
| **Total** | **Theory** | **Practical** |
| **Candidate is able to understand**   1. Tools and their uses 2. Safety measures 3. PCC Bed and Concrete Foundation 4. Basic Materials –stones, Bricks & clay products, Cement blocks, cement, Sand, Lime, Jelly, steel etc., 5. Water specification requirements, CRS stone masonry 6. Laying of damp proof course 7. Measurements, Mixing of Mortar, Laying and Placing. 8. Field Testing of Materials. 9. Identification, selection and practical uses of masonry tools. 10. Soil classification and Bearing capacities, Anti Termite Treatment. 11. Building components- Foundation, Basement, Lintels, Slab, Ceiling, Windows, Doors, Ward robes, Kitchen, Toilet etc.. 12. Building layout 13. Ingredients and types of Mortars and their properties 14. Stone Masonry, Brick Masonry and Concrete 15. Concrete – ingredients on their specification, mixing and conveying. 16. Types of brick masonry, construction, bonds and specifications 17. Concreting of footings, columns, lintels, sunshades, beams, slabs, stairs and related plastering work 18. Pipes used in building construction 19. Cross junction on English bond 20. Fixation of Door and Window frames etc., 21. Plastering work (Types- Plastering of wall surfaces, roofs) 22. Flooring work | **PC 1**- Able to understand standard practices for masonry work | 4 | 4 | **Nil** |
| **PC 2- S**afety rules and regulations for handling & storing required masonry tools & materials | 3 | 3 | **Nil** |
| **PC 3-** Personal protection including the use of related safety gears & equipments | 3 | 3 | **Nil** |
| **PC4 -** How to request tools and materials as per set procedure | 3 | 3 | **Nil** |
| **PC5-** Maintenance of tools and equipments | 3 | 3 | **Nil** |
| **PC6-** Process to prepare the sub-base by watering and ramming | 3 | 3 | **Nil** |
| **PC7-** Various type and grade of cement used, affect of water /cement ratio and type of aggregates | 3 | 3 | **Nil** |
| **PC8-** Different mix proportion/grade of concrete | 3 | 3 | **Nil** |
| **PC9-** Concrete pouring and placing | 3 | 3 | **Nil** |
| **PC10-** avoid shrinkage cracks in concrete | 3 | 3 | **Nil** |
| **PC11-** Knowledge on various admixtures used in concreting | 3 | 3 | **Nil** |
| **PC12-** Laying damp proof course using chemicals | 3 | 3 | **Nil** |
| **PC13-**Building materials – Identification, selection, uses for masonry work | 3 | 3 | **Nil** |
| **PC14-**Understands tolerance on house keeping | 3 | 3 | **Nil** |
| **PC15**- Knowledge on different types of soils and their bearing capacities, anti termite treatment | 3 | 3 | **Nil** |
| **PC16-** Setting out and marking on the ground for building layout | 3 | 3 | **Nil** |
| **PC17-** Knowledge on T junction in English bond | 3 | 3 | **Nil** |
| **PC18-** Understands foundations, basement, damp proof course as building components | 3 | 3 | **Nil** |
| **PC19-** Knowledge on ingredients and types of mortars | 3 | 3 | **Nil** |
| **PC20-** Mixing, laying and placing good mortar | 3 | 3 | **Nil** |
| **PC21-** Understands concreting of foundations, columns and roofs | 3 | 3 | **Nil** |
| **PC22**- Understands types and construction of stone machinery and termite proofing | 3 | 3 | **Nil** |
| **PC23-** Ingredients and specification of concrete mixing and its conveying | 3 | 3 | **Nil** |
| **PC24-** Types and construction of brick masonry, casting of lintels and sunshades | 3 | 3 | **Nil** |
| **PC25-** Concreting of footings, columns, lintels, sunshades, beams, slabs and stairs | 3 | 3 | **Nil** |
| **PC26 –** Plastering and pointing of walls and ceilings | 3 | 3 | **Nil** |
| **PC27-** Knowledge on pipes used in building construction and flooring with tiles | 3 | 3 | **Nil** |
| **PC28 –** Admixtures and chemicals and water proofing compounds used in machinery | 3 | 3 | **Nil** |
| **PC29**- Types of plastering and jointing | 3 | 3 | **Nil** |
| **PC30 –** Knowledge on Cross Junction in English Bond | 3 | 3 | **Nil** |
| **PC31-**Knowledge on Adhesive, solvents and joint pillars, rubber and plastics used in brick masonry | 3 | 3 | **Nil** |
| **PC32 –**Knowledge on calculation of quantum of work done | 3 | 3 | **Nil** |
| **PC33-** Knowledge on flooring and flooring types | 3 | 3 | **Nil** |
|  | **Total** | **100** | **100** | **Nil** |
| **Professional Skills**  **Candidate is able to work/perform**   1. Use/ operate and maintain different hand tools, machineries and equipments 2. Take measurements areas and cubical contents, mixing of mortar, laying and placing 3. Test different materials in the field 4. Lay damp proof course by using chemicals 5. Classify soils of different types, their bearing capacities 6. Carryout anti termite treatment 7. Prepare the building layout construction plan 8. Carry out foundation work up to DPC level 9. Identify different building components and usage of the same 10. Construct brick corner and T Junction wall 11. Mix the concrete with appropriate ingredients 12. Construct one and half brick corner wall 13. Construct brick walls, construction of bonds 14. Construction of one and half brick and brick T Junction 15. To place consolidate and cure concrete mortar 16. Fixation of doors and window frames 17. Able to concrete the footings, columns, lintels, sunshades, beams, slabs, stairs, plastering and pointing walls 18. Fixation of tiles for flooring 19. Construction of attached and detached piers in brick masonry 20. Carry out plastering on straight wall with cement and mortar 21. Construction of junction manhole 22. Carry out CRS stone masonry 23. Construction of IPS and carryout flooring with vitrified / granite tiles 24. Construction of L wall in stretcher bond 25. Construction of block work for corner and T junction 26. Construction of cross junction in English Bond 27. Use adhesive solvents, joint pillars, rubber and plastics at appropriate levels 28. Plastering and pointing walls 29. Plastering of ceilings 30. Calculate quantum of work done | **PC34 -** Able toUse, operate and maintain different hand tools, machineries and equipments | 3 | Nil | 3 |
| **PC35** – Able to measure the areas and cubical contents, mixing of mortar, laying and placing | 3 | Nil | 3 |
| **PC36-**Able to test different materials on the spot | 3 | Nil | 3 |
| **PC37 -** Able to construct damp proof course by using appropriate chemicals | 3 | Nil | 3 |
| **PC38 -** Able to classify soils and judge their bearing capacities | 3 | Nil | 3 |
| **PC39** – Carryout anti termite treatment | 3 | Nil | 3 |
| **PC40-**Prepare the building layout for construction | 3 | Nil | 3 |
| **PC41** – Carry out foundation work | 3 | Nil | 3 |
| **PC42** – Able to identify and uses of various building components | 3 | Nil | 3 |
| **PC43** – Construct brick corner and T Junction wall | 3 | Nil | 3 |
| **PC44** – Able to mix appropriate ingredients to make cement concrete | 3 | Nil | 3 |
| **PC45** – Able to construct one and half brick corner wall | 3 | Nil | 3 |
| **PC46** – Able to construct bonds in brick walls | 4 | Nil | 4 |
| **PC47** – Able to construct one and half brick and brick T junction | 3 | Nil | 3 |
| **PC48** – Able to consolidate and cure concrete mortar | 3 | Nil | 3 |
| **PC49** – Able to fix doors and window frames | 4 | Nil | 4 |
| **PC50** – Able to concrete the footings, columns, lintels, sunshades, beams, slabs, stairs, plastering and pointing walls | 3 | Nil | 3 |
| **PC51**– Able to fix the tiles | 4 | Nil | 4 |
| **PC52** –Able to construct attached and detached piers | 4 | Nil | 4 |
| **PC53** –Able to carry out plastering on straight walls | 3 | Nil | 3 |
| **PC54** – Able to construct junction manhole | 4 | Nil | 4 |
| **PC57** – Able to carry out CRS stone masonry | 3 | Nil | 3 |
| **PC58** – Take up construction of IPS and carry out flooring with tiles | 3 | Nil | 3 |
| **PC55** – Able to construct L wall in structure bond | 4 | Nil | 4 |
| **PC56** – Able to block work for corner and T junction | 4 | Nil | 4 |
| **PC57-** Able to construct cross junction in English bond | 4 | Nil | 4 |
| **PC62** –Able to use adhesive, solvents, joint pillars, rubber and plastics at appropriate levels | 4 | Nil | 4 |
| **PC63** –Able to plastering at pointing walls | 4 | Nil | 4 |
| **PC64-** Able to carry out plastering of ceilings | 3 | Nil | 3 |
| **PC65-** Able to calculate quantum of work done | 3 | Nil | 3 |
| **Total Professional/Technical Skills** | | **100** | **Nil** | **100** |
| **Total for the Course** | | **300** | **160** | **140** |
| **Means of assessment 1**: Physical Test | | | | |
| **Means of assessment 2**: Written Test & Viva Voce. | | | | |
| **Pass : overall 50 % and above** | | | | |

# SECTION 2- EVIDENCE OF LEVEL

Option B: Key Requirements of the Job Role

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| **Title of the Qualification: MASONARY AND CONCRETE WORKS** | | | | |
| **NSQF LEVEL: 4** | | | | |
| **Process Required** | **Professional Knowledge** | **Professional Skills** | **Core Skills** | **Responsibility** |
| **Persons may carry out a job which may require limited range of activities which are routine.** | **Basic facts, process and principle applied in trade of employment** | **Recall and demonstrate practical skill, routine and repetitive in narrow range of application.** | **Communication written and oral, with minimum required clarity, skill of basic arithmetic and algebraic principles, personal banking, basic understanding of social and natural environment** | **Under close supervision, some responsibility for own work within defined limit.** |
| Masonry is the building of structures from individual units, which are often laid in and bound together by [morta](https://en.wikipedia.org/wiki/Mortar_(masonry))r, which has a limited range of activities routine and predict | Knowledge level required is of basic masonry ideas, who can take up the venture as full time employment | The skill required here is mainly acquired by practice and once perfection is achieved, it will be repetitive in nature. | Enterprise launching and business management skills to a limited scale. This can be imparted through training as it involves simple skills and knowledge about masonry | Since this training leads to entrepreneurial outcome responsibility for own work and learning is to be present and demonstrated. |

# SECTION 3: EVIDENCE OF NEED

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| **What evidence is there that the qualification is needed?**  Construction is the second largest industry in India, next only to agriculture. According to the intonation published by National Institute for Construction Management and Research (NICMAR), construction accounts for more than 40 percent of the national plan outlay, contributes 5 percent to the GDP annually and 78 percent to the gross capital formation 1. Nearly 16 percent of the nation's working population is reportedly dependent on construction for its livelihood. Nearly 32 million workers and professionals are directly employed in construction activities. Of, those, 24 million are unskilled. Thus, the construction industry in India has, by and large, been a labor-intensive industry, although change in favor of modernization and automation is now discernible in certain fields. Ready-mixed concrete is one such field.    Masonry is the building of structures from individual units, which are often laid in and bound together by [mortar](https://en.wikipedia.org/wiki/Mortar_(masonry)); the term *masonry* can also refer to the units themselves. The common materials of masonry construction are [brick](https://en.wikipedia.org/wiki/Brick), building [stone](https://en.wikipedia.org/wiki/Rock_(geology)) such as [marble](https://en.wikipedia.org/wiki/Marble), [granite](https://en.wikipedia.org/wiki/Granite), [travertine](https://en.wikipedia.org/wiki/Travertine), and [limestone](https://en.wikipedia.org/wiki/Limestone), [cast stone](https://en.wikipedia.org/wiki/Cast_stone), [concrete block](https://en.wikipedia.org/wiki/Concrete_block), [glass](https://en.wikipedia.org/wiki/Glass) block, and [cob](https://en.wikipedia.org/wiki/Cob_(material)). Masonry is generally a highly durable form of construction. However, the materials used, the quality of the mortar and workmanship, and the pattern in which the units are assembled can significantly affect the durability of the overall masonry construction  A concrete finisher is a [tradesman](https://en.wikipedia.org/wiki/Tradesman) who works with [concrete](https://en.wikipedia.org/wiki/Concrete) by placing, finishing, protecting and repairing concrete in engineering and construction projects. Concrete finishers are often responsible for setting the concrete [forms](https://en.wikipedia.org/wiki/Formwork), ensuring they have the correct depth and pitch. Concrete finishers place the concrete either directly from the concrete wagon chute, concrete pump, concrete skip or wheelbarrow.  To train the rural youth for taking up self employment ventures, Rural Self Employment Training Institutes (RSETIs) have been established by various Banks. Ministry of Rural Development gives part funding of the training. The RSETIs have been established on the RUDSETI model which has been proved very effective in eradicating the problems of unemployed youth. The trainings by these Institutes is unique in the sense they are demand based. The Institutes have got the experience of conducting these Programmes over the years.  **In order to identify the potential programmes as per the needs of the unemployed youth, a Committee of General Managers of top 5 RSETI sponsoring Banks has been constituted. The General Managers of State Bank of India, Punjab National Bank, Bank of Baroda, Central Bank of India and Bank of India are the members of this Committee. In addition, Executive Director, RUDSETI, National Director for RSETIs and Director General, National Academy of RUDSETI who got rich field experience also joined this Committee The above Committee met at Mumbai on 7th November 2016. After thorough discussions and based on the past experience the Committee short listed potential /need based courses for training rural unemployed youth in the RSETIs. The training on Masonry installer career is one such shortlisted need based training.** |
| **What is the estimated uptake of this qualification and what is the basis of this estimate?**  Presently there are 585+ Rural Self Employment Training Institutes (RSETIs) across the country sponsored by various Banks. National Academy of RUDSETI is the anchoring Institution which designs and approves the training programmes being conducted by these RSETIs. The Training Modules are demand driven and are vetted by National Academy of RUDSETI, having experience of running similar programmes by the RUDSETIs since over three decades. Masonry installer career is one of the most popular need based training programmes conducted by these Institutes. These programmes are having very good settlement rate. The number of trainees under this qualification during the past three years is as under:    So far in RSETIs more than 6,000 candidates have been trained in this Qualification. Cumulative settlement rate for the above training is 56 % and observing the above trend, the candidates trained under the above qualification file, the number of candidates to be trained in the next three years is estimated at more than 5,000 candidates. |

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| **What steps were taken to ensure that the qualification(s) does/do not duplicate already existing or planned qualifications in the NSQF?**  Similar course leading to holistic understanding of the area of Masonry and concrete works and leading to entrepreneurial outcome is currently not offered by NCVT or Sector Skills Council including the Media and Entertainment Sector Skill Council.  **.**  **What arrangements are in place to monitor and review the qualification(s)? What data will be used and at what point will the qualification(s) be revised or updated?** |

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| **What Arrangements are in place to monitor and review the qualification (s)? What data will be used and at point will the qualification (s) be revised or updated?**  National Academy of RUDSETI has put in place a robust MIS for RSETIs. Comprehensive data (Course wise/Bank Wise/State Wise) for all RSETIs is maintained by NAR in the said MIS. Entry level data include the photograph of the candidate other basic details. Course modules are made available in the MIS and the website of NAR. Training logs and Post Programme Reports with action photographs of the training are also made available in the MIS. Details of Settlement and credit linkages are uploaded in the MIS with action photos and documentary proofs. The State Directors of RSETIs are also visiting the RSETIs every quarter for reviewing the quality of training / settlement. Officials from the controlling offices of the Banks and NAR are also making periodic visits to the RSETIs for reviewing the activities. MIS reports are used for viewing the settlement of the trained candidates, their level of income and employment generation by them. Feedback obtained from the trained candidates, RSETI sponsoring bank and other stake holders are used to review/update the course. |

# SECTION 4: EVIDENCE OF RECOGNITION AND PROGRESSION

**What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector?**

The candidates who are trained in servicing inverter and UPS repairing and battery making may attend skill up gradation Programme where in specialized inputs will be given for enabling the candidates to go in for technology up gradation especially in advanced inverter and UPS services. The candidates are also eligible for attending the growth Programmes in RSETIs which will help them draw a growth plan for their business and go in for expansion and diversification in the related field of activity.