

CONTACT DETAILS OF THE AWARDING BODY FOR THE QUALIFICATION

1. Name and address of awarding body:

**National Academy of RUDSETI
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2. Name and contact details of the Individual dealing with the submission:

**Name: Sri. R. R. Singh
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3. List of Documents submitted in support of the Qualifications file (Annexure)

- i. About National Academy of RUDSET
- ii. RUDSETI Model of Entrepreneurship Development
- iii. Curriculum document /Syllabus
- iv. Session Plan
- v. Bank wise list of RSETIs
- vi. Research Studies regarding RUDSETI/RSETI
- vii. Success Stories

QUALIFICATION FILE TEMPLATE

SUMMARY

Qualification Title: Refrigeration and Air Conditioning

Qualification Code: NARQ40042-PROCESS

Nature and purpose of the qualification:

This qualification enables the trainee to set up his/her own enterprise in Refrigeration and Air conditioning services. According to NSSO Data (2013) among workers in rural areas, 54.2% are self-employed and 38.6% work as casual labor, whereas 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.

On gaining skills in Refrigeration and Air conditioning and entrepreneurship, the candidates trained in this qualification can start their own refrigeration and air conditioning repairing unit. There is increasing demand for this service especially for private (domestic) and public events in the rural areas and small towns. On becoming an entrepreneur the candidate trained in this qualification will initially promote a micro-enterprise which can gradually grow to become a small and later medium scale enterprise. The Micro, Small and Medium Enterprises (MSME) sector has emerged as a highly vibrant and dynamic sector of the Indian economy over the last five decades. MSMEs are playing a crucial role in providing large employment opportunities at comparatively lower capital cost than large industries. They are also contributing in a significant manner to the industrialization and development of rural and backward areas. This helps to reduce regional disparities and provides for a more equitable distribution of national income and wealth. MSMEs contribute enormously to the socio-economic development of the country. This sector today consists of 36 million units and provides employment to over 80 million persons. The Sector through more than 6,000 products contributes about 8% to GDP besides 45% to the total manufacturing output and 40% to the exports from the country. The MSME sector has the potential to spread industrial growth across the country and can be a major partner in the process of inclusive growth. Entrepreneurship, and resultant creation of employment and wealth, is a major mean for inclusive development.

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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 Refrigeration and Air Condition Unit as his/her own undertaking. Besides skills in the field of refrigeration and Air conditioning Repairing, the qualification will give access to the trainee to:

1. Acquire and internalize the required Entrepreneurial Competencies (skill as well as attitude).
2. Knowledge and techniques for identifying the business opportunities, selection of an entrepreneurial activity, launching of the venture and skills for managing a Micro Enterprise.
3. Build confidence in one's own abilities

Proposed level of the qualification in the NSQF:

Level 4

Anticipated volume of Training / Learning required to complete the qualification

240 hours

See Annexure III for Curriculum document and Annexure IV for Session Plan

Entry requirements / Recommendations:

Male or Female Candidates in the age group of 18 to 45 years having inclination for taking up refrigeration and air conditioning services as a self-employment occupation. Must be able to read and write in any language.

Progression from the qualification:

This qualification will enable the trainees to become self employed by providing the service of repairing Refrigeration and Air conditioning. He/she will be able to set up his/her own unit in Refrigeration and Air conditioning Repairing. In due course they will graduate to become an

Planned arrangements for the Recognition of Prior learning (RPL):

Not applicable

International comparability where known:

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Formal structure of the qualification			
NARQ40003 – PROCESS Refrigeration and Air conditioning	Mandatory/ Optional	Estimated Size (learning hours)	Level
Professional Knowledge			
A - Entrepreneurship			
1. Knowledge of self-confidence , attitude	Mandatory	32 hours	Level 4
2. Entrepreneurial competencies			
3. Banking, insurance , financial accountancy and management			
4. Legal aspects ,regulatory aspects of SMEs			
B – Technical Knowledge			
5. Scope and opportunities for refrigeration and air conditioning service activity	Mandatory	64 hours	Level 4
6. Basic electrical, Different types of refrigeration-domestic ,commercials, centralized			
7. Tools and equipments used for Refrigeration and Air condition			
8. Various parts –internal and external its dissembling and precautions			
9. Uses of copper tubes, different size of copper tubes &its uses.			
10. Uses of sweging, cutting and flaring			
11. Evaporation condenser, expansion valve copper and aluminum.			
12. Brazing system,			
13. Refrigeration working process, eco friendly refrigerator, and harmful effects of refrigerate service on ozone layer.			
14. Direct cool and frost free refrigerator- electrical and mechanical parts.			
15. Window A.C. and split AC- difference and its wiring system.			
16. Mechanical and evaporation leakage system common problems of refrigeration and control machine.			
17. Electronic air sensor ,air flow and temperature &types of temperature sensor			
18. Commercial Air conditioning plants, centrifugal force compressor and scroll compressor			
Professional Skills			
19. Use of Tools/ Equipment and Various components used in refrigeration and air condition	Mandatory	108 hours	Level 4
20. Parts of compressor-demo			

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<p>21. Disassembling and assembling of compressor and precautions</p> <p>22. Copper tube swaging, cutting and flaring</p> <p>23. Evaporation condenser, expansion valve copper and aluminum.</p> <p>24. Problems of domestic and commercial refrigeration systems</p> <p>25. Window AC.</p> <p>26. Split AC</p> <p>27. Refrigerant leakage and charging.</p> <p>28. Fault findings</p> <p>29. Wiring of ACs and refrigeration</p> <p>30. Dismantling and assembling of window and split ACs</p> <p>31. Coolant and Braine air handling unit</p>			
<p>Core Skills</p> <p>32. Identify business opportunities in chosen sector</p> <p>33. Conduct market survey and prepare simple business plan</p> <p>34. Ability to plan and assess risk</p> <p>35. Problem solving capabilities</p> <p>36. Time management skills</p> <p>37. Communication skills</p> <p>38. Business Management skills</p>	Mandatory	36 hours	Level 4
<p>Admission & Examination</p>	Mandatory	4 hours	-
Total Duration of the Course			240 hours

SECTION 1 - ASSESSMENT

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

2. 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

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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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ASSESSMENT EVIDENCE				
Entrepreneurship Development				
Learning Outcomes	Performance Criteria	Assessment Criteria		
		Total	Theory	Practical
1. Candidate is clearly able to differentiate between Wage employment, Self-employment and Entrepreneurship	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
2. Understand, appreciate and develop the self-confidence for embarking on self-employment / entrepreneurship.	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
3. Understand and internalize entrepreneurial competencies and know their importance for becoming a successful entrepreneur.	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
4. Trainee is able to understand the legal and regulatory aspects of launching an enterprise.	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	3	1	1
5. Trainee is able to appreciate need for continuous growth and expansion of an enterprise	PC 9 - Understanding the process of steps in Problem Solving	2	2	1
	PC 10 – Time Management – Understanding of Basic Concepts and ability to manage time	3	2	1
6. Trainee is able to analyze major trends in a given economic sector / sub-sector and identify Business Opportunities	PC 11 – Effective Communication Skills – Understanding of Basic Concepts and ability	2	1	1
	PC 12 – Ability to assess market conditions and identify appropriate business opportunities	3	3	0
7. Trainee is able to conduct market survey and develop sound Business Plans based on obtained data.	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 startup enterprise	6	3	3
8. Develop effective personal management skills like time management and communication skills.	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
9. Know how to acquire entrepreneurial competencies through work experience as well as other sources of learning	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
10. Knows to maintain simple	PC 19 – Understanding and ability for Sales and	7	4	3

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<p>books of accounts and prepare financial statement for small business</p> <p>11. Trainees able to devise a simple marketing and sales strategies and plan for a small business</p> <p>12. Trainees able to manage small team of workers required for managing a small business</p>	Marketing			
	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

Outcomes to be Assessed	Performance Criteria	Assessment Criteria		
		Total	Theory	Practical
TECHNICAL KNOWLEDGE	After gaining professional knowledge the trainee will have:			
1. Knows the scope for Refrigeration and Air conditioning services	PC1 – Good level of interest in becoming an entrepreneur in Refrigeration and Air conditioning services.	5	5	NIL
2. Can understand the basic of electricity, series board connection phase and earth etc .Can identify different types of refrigeration systems and refrigeration cycle.	PC2 Understanding the basic electrical and electrical system in refrigeration.	5	5	NIL
	PC3 – Understanding the use of different tools used in refrigeration and Air condition system and the precautions to be taken in its use.	5	5	NIL
3. Is able to know the different tools and equipments used for Refrigeration and air condition services.	PC4 –Knowledge of disassembling of the refrigerator	5	5	NIL
	PC5 - Knowledge of different parts of a refrigerator	3	3	NIL
4. Knows the parts of refrigerator and Air conditions and able to know the precautions while disassembling the R &AC.	PC6 Knowledge of different parts of Air conditioning system	3	3	NIL
	PC7 Precautions while disassembling of the Refrigeration and AC	3	3	NIL
5. Is able to know the copper tubes and its uses in refrigerator system.	PC8 Knowledge of copper tubes and its uses in refrigeration	3	3	NIL
	PC9 – Knowledge of joining and connecting of refrigerator tubes	5	5	NIL
6. Is able to learn to join and connect 2 pieces of refrigerator tubing.	PC10 - Understand about evaporative condenser	5	5	NIL
	PC11 – Understand how the evaporative condenser improves the heat rejection process	3	3	NIL
7. Knows the Evaporative condensers and how it improves the heat rejection process by using the cooling effect of evaporation.	PC12 - Understand the cooling effect of evaporation	3	3	NIL
	PC13 - Understand the brazing system	5	5	NIL
8. Is able to know the different steps in brazing and its method.	PC14 – Understand the different steps in brazing	3	3	NIL
	PC15 - Understand the different working process of refrigeration	5	5	NIL
9. Has understood different	PC16 – Understand the effects of refrigerator system in ozone layer	3	3	NIL

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<p>working process of refrigeration, and its effects on ozone layer</p> <p>10. Able to know the power consumption and energy efficiency in direct cool and frost free refrigerators.</p> <p>11. Is able to know the types of AC- i.e window AC and Split AC and knows the wiring system of both.</p> <p>12. Has understood fuel evaporation leakage system and its control methods.</p> <p>13. Is able to know to monitor the temperature of the air entering the engine and locate the air intake temperature sensor.</p> <p>14. Has understood working mechanism of commercial air condition plants. Has able to know the different compressors and its workings</p> <p>15. Knowledge of safety procedures and protocols to be followed.</p>	PC17- Knowledge of direct cool and frost free refrigerator	3	3	NIL
	PC18- Understand the power consumption and energy efficiency in cooling system	3	3	NIL
	PC19- Understand the window AC and Spit AC	5	5	NIL
	PC20- Understand the wiring system of window AC and Spit AC	5	5	NIL
	PC -21- Understand the fuel evaporation leakage system	3	3	nil
	PC-22- Understand the controlling method of leakage system	3	3	NIL
	PC- 23- Understand the temperature system in Refrigeration	5	5	NIL
	PC 24- Understand the air intake temperature sensor	3	3	NIL
	PC-25- Knowledge of commercial Air condition plants	2	2	NIL
	PC-26- Understand the different compressors in commercial air conditioning	2	2	NIL
	PC-27 Understand the working of compressors in commercial AC	2	2	NIL
	PC-28 Knows the safety related procedures to be followed in repairs and maintenance works of Refrigerator and Air Conditioner.	1	1	Nil
	TOTAL	100	100	NIL

TECHNICAL SKILL	16. Trainee should able to handle all kinds of tools and equipment's of telephones while servicing and repairs	PC1- Able to handle the tools and equipments for refrigeration	3	NIL	3
		PC2- Able to identify various parts of compressors	3	NIL	3
	17. Has understood the different parts of compressors of refrigerator system.	PC3 - Able to disassemble and assemble the compressors	6	NIL	6
		PC4- Able to find the precautions to be taken in disassembling and assembling	6	NIL	6
	18. Is able to know the mechanism of disassembling and re assembling of the compressors and what are the precautions to be taken during this process	PC5- Able for cutting of copper tubes	6	NIL	6
		PC6- Ability of using flaring swaging tools	6	NIL	6
	19. Able to learn how efficiently cut and join the copper tubes by using flaring swaging tools.	PC7- Ability to do the cooling effect of evaporation	6	NIL	6
		PC8- Able to identify the working system of domestic refrigeration	6	NIL	6
	20. Is able to understand and learn the cooling effect of evaporation of the condenser.	PC9 - Able to identify commercial refrigeration system its operation system	5	NIL	5
		PC10- Understand the widow AC compressor	5	NIL	5

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22. Is able to learn window AC compressor change vacuum and refrigerant changing.	PC11-Able to change the vacuum and refrigerant in window AC	8	NIL	8
23. Able to learn outdoor valve change, expansion tube change compressor change vacuum and refrigerant charging in Split AC.	PC12-Able to change valve	5	NIL	5
	PC13 - Ability to change expansion tube	5	NIL	5
24. Able to detect refrigerant leakage and charging, tools for checking leakage mechanical evaporation leakage system.	PC14 -Able to rectify evaporation leakage system	5	NIL	5
	PC15 - Able to braze chokes and fault findings	5	NIL	5
25. He is able learn fault findings in brazing chokes and solutions, mechanical parts, low presser side and high presser side and its solutions.	PC16- Able identify low presser side and high presser side	5	NIL	5
	PC 17-Able to undertake wiring of split AC and Window ACs	5	NIL	5
26. Able to know wiring of split AC and Window ACs.	PC18-Able to undertake disassembling and re assembling of window AC	5	Nil	5
27. Is able to learn the mechanism of disassembling and re assembling of window and spit ACs.	PC19- Able to undertake disassembling and re assembling of split ACs	5	NIL	5
28. Is able to learn how the coolant protects the engine from freezing while defending components against corrosion				
	TOTAL	100	NIL	100
	Grand Total	300	160	140
Means of assessment 1: Physical Test				
Means of assessment 2: Written Test & Viva Voce.				
Pass: Overall 50% and above.				

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SECTION 2- EVIDENCE OF LEVEL

Option B: Key Requirements of the Job Role

Title of the Qualification: NARQ40042-PROCESS- Refrigeration and Air conditioning				
NSQF Level: 4				
Process Required	Professional Knowledge	Professional Skills	Core Skills	Responsibility
Work in familiar predictable, routine, situation of clear choice	Factual knowledge of field of knowledge or study.	Recall and demonstrate practical skill, routine and repetitive in narrow range of application using appropriate rule and tool, using quality concepts.	Language to communicate written or oral, with required clarity, skill to basic arithmetic and algebraic principles, basic understanding of social political and natural environment	Responsibility for own work and learning
Since the qualification is devised for attending the services of refrigeration and air conditioning and knowledge about which has been imparted the nature of work is routine and predictable with fair degree of choice/decisions to be made.	Factual knowledge of equipment and process of servicing of refrigeration and air conditioning.	Ability to service the refrigeration system and Air conditioning system with clearly identified quality standards.	Enterprise launching and business management skills to a limited scale. This can be imparted through training.	Since this training leads to entrepreneurial outcome responsibility for own work and learning is to be present and demonstrated.

SECTION 3: EVIDENCE OF NEED

What evidence is there that the qualification is needed?

Entrepreneurship has been embedded in the Indian genius and is a part of its tradition. India traditionally has been an entrepreneurial society. Traditionally, the entrepreneurship of many communities has been facilitated principally by the successful use of informal 'entrepreneurial ecosystems' and interdependent business networks. Further, there is also a rich tradition within the Indian Diaspora, spanning the past several hundred years, whose spirit of enterprise is legion.

Entrepreneurship in India occurs in 'far more encompassing and far reaching ways than in developed countries', and could therefore be far more complex, for there is so much more that needs to be done. Commentators today celebrate the ubiquitous Indian attitude of '*Jugaad*' (a Hindi word roughly translated as 'creative improvisation') tool to somehow find a solution based on a refusal to accept defeat, and calling on initiative, quick thinking, cunning and resolve to quickly fulfill market demands at the lowest possible prices) as an entrepreneurial trait that has been as much a part of everyday Indian living as its rich tradition of philosophy and speculation.

The development and impact of entrepreneurship in India has intensified in recent times, particularly with the rise in knowledge-intensive services. New entrepreneurs who do not belong to traditional business communities have begun to emerge in large numbers. Entrepreneurship has grown rapidly, visibly so, creating wealth and generating employment, especially in the past twenty years. Crucial efforts initiated after economic liberalization – including systematic attempts to reduce the 'license raj', greater efforts to make finance more easily accessible to entrepreneurs and other institutional support to 'technopreneurs' – have helped improve the climate for Entrepreneurship.

Thus, the opportunities created by today's global knowledge economy coupled with the 'unshackling of indigenous enterprise', have continued to making India a 'fertile ground' for Entrepreneurship. Recent surveys, such as those undertaken by Goldman Sachs and Pricewaterhouse Coopers, have estimated that India has the potential to be among the world's leading economies by 2050. Further India's economy can potentially gain significantly from the country's characteristic features – a democratic open society, a strong technology base (with capacity for leapfrogging), unparalleled diversity, vibrant capital markets (including growing private equity and venture capital markets), an increasingly youthful population (50% of India is 25 years and younger), a sizeable market of a large number of customer with vast unmet needs as well as an environment of full and free competition in the private sector.

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In order to give impetus to this growing demand of first generation entrepreneurs to gain formal training in entrepreneurship knowledge and skills 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 models which have been proved very effective in eradicating the problems of unemployed youth. The trainings by these Institutes are unique in the sense they are demand based. The Institutes have got the experience of conducting these Programmes over the years.

Refrigeration and Air conditionings are the most used as well as the major electronic appliance .Almost every household has one. There are various brands of Refrigeration and air conditions .Hence the scope for servicing these appliances is wide .Refrigeration and Air conditioning services works on residential, commercial public and industrial projects including transportation and storage. In order to comply with the requirements of the customer and maintain and grow business the entrepreneur has to provide high and growing standards of service.

Hence there is a vast scope for servicing of Refrigeration and Air conditioning in India and abroad .It includes installation, commissioning, servicing of refrigeration and air conditions, mechanical ventilation and air handling systems .This training is aimed at training candidates for job of “Refrigeration and Air conditioning Service” in the refrigeration and Air conditioning industry. Hence the entrepreneur will be able to service and troubleshoot the common problems in an RAC unit.

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 Entrepreneurship in ‘Refrigeration and Air conditioning’ is one such shortlisted need based training.

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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. Multi Brand Multi Phone Servicing 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:

FY	No. of Training Programmes	Number of Candidates	Number Settled
2013-14	62	1519	951
2014-15	94	2344	1187
2015-16	104	2788	1174

Cumulative settlement rate for the above training is 52% 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.

What steps were taken to ensure that the qualification(s) does/do not duplicate already existing or planned qualifications in the NSQF?

The qualification is unique because it develops the capabilities of a youth to own, operate a Refrigeration and Air conditioning (shop) by developing both entrepreneurial and technical knowledge and skills. Such a qualification is currently not offered by NCVT or any of Sector Skill Council. Hence, the activities are unique and the Qualification does not get duplicated.

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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 Refrigeration and Air Conditioning Repairs and Servicing 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 refrigeration 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.