

NSQF QUALIFICATION FILE

Approved in 20th NSQC Meeting, Dated: 30th June 2022

Rationalized in 24th NSQC Meeting – NCVET – Dated 17.11.2022

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

Skill Council for Green Jobs,
CIBP Building, Malcha Marg,
Chankyapuri, New Delhi - 110021

NCVET Code

2022/ES/SCGJ/06729

Name and contact details of individual dealing with the submission

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List of documents submitted in support of the Qualification File

- Model Curriculum
- Occupation Map

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SUMMARY

1	Qualification Title	Biomass Depot Operator
2	Qualification Code, if any	SGJ/Q6207
3	NCO code and occupation	NCO-2015/9333.0201 Warehouse Worker
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	Nature of Qualification: - Responsibility for own work and learning (Long term) Purpose of the qualification: - Biomass Depot Operator is responsible for handling, storage and management of biomass at the storage depot.
5	Body/bodies which will award the qualification	Skill Council for Green Jobs
6	Body which will accredit providers to offer courses leading to the qualification	Skill Council for Green Jobs
7	Whether accreditation/affiliation norms are already in place or not , if applicable (if yes, attach a copy)	Yes
8	Occupation(s) to which the qualification gives access	Supply Chain Management
9	Job description of the occupation	Biomass Depot Operator is responsible for handling, storage and management of biomass at the storage depot. He/she looks after activities such as procurement of biomass from suppliers/farmers/aggregators, biomass pre-processing / densification and storage in a manner so as to ensure its quality and safety as per required industry standards.
10	Licensing requirements	N/A
11	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)	
12	Level of the qualification in the NSQF	4
13	Anticipated volume of	390 hours including 210 hours of compulsory

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	training/learning required to complete the qualification	modules+60 hours of Employability skills module and 120 hours of OJT	
14	Indicative list of training tools required to deliver this qualification	Baler machine demo units, Moisture Analyzer, temperature sensor, Gloves (non-prickable), industrial mask, safety tools, sanitizer, first aid box, tasla/shallow pan	
15	Entry requirements and/or recommendations and minimum age	<ul style="list-style-type: none"> • 10th Pass with 2 years of experience or • NSQF Level 3 certified Agri Residue Aggregator with 1 year of suitable experience <p>16 years</p>	
16	Progression from the qualification (Please show Professional and academic progression)	Level-5 (Vertical) Supervisor- Operations and Maintenance (Compressed Biogas/Waste to Energy)	
17	Arrangements for the Recognition of Prior learning (RPL)	<p>SCGJ recognizes that there may be candidates who have prior learning experience in the depot operation and are desirous of being certified.</p> <ul style="list-style-type: none"> -Propose to carry out RPL for candidates working in biomass supply chain -Identify the candidates through training need analysis of the industry -Develop the RPL curriculum and bridge course for bridging the skill gap - Training and certification of the candidates 	
18	International comparability where known (research evidence to be provided)	ISCO 08- 1324	
19	Date of planned review of the qualification.	29 th June 2025	
20	Formal structure of the qualification	The entries made here will show how the qualification is designed for delivery and assessment.	
	Mandatory components		
	Title of component and identification code/NOSs/Learning outcomes	Estimated size (learning hours)	Level
(i)	Introduction to Biomass Depot operation and required supporting skills	30	4

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(ii)	SGJ/N6227: Purchase agri-residue biomass from farmers/aggregators for stocking	60	4
(iii)	SGJ/N6228: Rebale to densify and store agri-residue bales	90	4
(iv)	SGJ/N6205: Maintain basic health and workplace safety	30	3
(v)	Employability Skills (60 hours) DGT/VSQ/N0102:	60	
(vi)	Recommended OJT Duration	120 Hours	
	Sub Total (A)	390 hours including 210 hours of compulsory modules+60 hours Employability and 120 hours of OJT	
	Optional components		
	Title of component and identification code/NOSs/ Learning outcomes	Estimated size (learning hours)	Level
	Sub Total (B)	0	
Total (A+B)		390 Hours	4

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SECTION 1

ASSESSMENT

21	Body/Bodies which will carry out assessment: Skill Council for Green Jobs through its affiliated and accredited Assessment Agency
22	How will RPL assessment be managed and who will carry it out? The RPL assessment will be carried out through pre-assessment, identifying the skills gaps, provide bridge training to cover the competency gap, where required, and then conduct final assessment of the candidates. Confederation of Indian Industry (CII) or any other Affiliated Assessment Agency of SCGJ, as per RPL Policy and Guidelines
23	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 the NSQF. The emphasis is on examination of existing businesses through case study analysis and practical demonstration of skills and knowledge based on the performance criteria. The assessment papers are developed by Subject Matter Experts (SME) available with the Assessment Agency, in collaboration with Skill Council for Green Jobs, as per the performance and assessment criteria mentioned in the Qualification Pack. The assessments papers are also checked for the various outcome-based parameters such as quality, time taken, precision, tools & equipment requirement etc. The assessment sets are then reviewed for consistency. The technical limitations at the training centres are taken care in theory and viva. The assessment agencies are instructed to hire assessors with integrity, reliability and fairness. Each assessor shall sign a document with its assessment agency by which they commit themselves to comply with the rules of confidentiality and conflict of interest, independence from commercial and other interests that would compromise impartiality of the assessments. The assessment agencies are instructed to identify assessors as per the Assessment Policy and Guidelines established by Skill Council for Green Jobs relevant for that Qualification. The assessors selected by Assessment Agencies are scrutinized and made to undergo training and introduction to SCGJ Assessment Framework, competency-based assessments, and assessor's guides. The assessors are provided with assessor's guide developed by the Subject Matter Expert of the assessment agency in collaboration with SCGJ as per the assessment framework. The assessment guides are developed to ensure the maximum possible consistency in the assessment by different assessors and elaborate on the following <ul style="list-style-type: none">• Qualification Pack Structure• Guidance for the assessor to conduct theory, practical and viva

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<p>assessments</p> <ul style="list-style-type: none">• Guidance for trainees to be given by assessor before the start of the assessments.• Guidance on assessments process, practical brief with steps of operations practical observation checklist and mark sheet• Viva guidance for uniformity and consistency across the batch. <p>The assessment by assessment agency is completely based on the assessment criteria as mentioned in the Qualification Pack. Each NOS in the Qualification Pack (QP) is assigned a relative weightage for assessment based on the criticality of the NOS. Therein each Performance Criteria in the NOS is assigned marks for or practical based on relative importance, criticality of function and training infrastructure.</p> <p>The following tools are proposed to be used for final assessment:</p> <p>Practical Assessment: This will comprise of a test to evaluate the individual's grasp on domain skills imparted.</p> <p>Viva/Structured Interview: This tool will be used to assess the conceptual understanding and the behavioural aspects as regards the job role and the specific task at hand. It will also include questions to ascertain the soft skills of interacting with the customer or client.</p> <p>Written Test: Under this test few key items which cannot be assessed practically will be assessed. The written assessment will comprise of:</p> <ul style="list-style-type: none">• True / False Statements• Multiple Choice Questions• Problem Statements• Case Study Analysis

Please attach most relevant and recent documents giving further information about assessment and/or RPL.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

ASSESSMENT EVIDENCE

Complete a grid for each component as listed in “Formal structure of the qualification” in the Summary.

NOTE: this grid can be replaced by any part of the qualification documentation which shows the same information – ie Learning Outcomes to be assessed, assessment criteria and the means of assessment.

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24. Assessment evidences

Title of Component: Biomass Depot Operator

Means of assessment 1

- Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC
- The assessment for the theory part will be based on knowledge bank of questions created by the SSC
- Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS
- Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below)
- Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion
-

Pass/Fail:

- To pass the Qualification Pack, every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment
- In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack

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SECTION 2

25. EVIDENCE OF LEVEL

OPTION A

Title/Name of qualification/component: Biomass Depot Operator			Level: 4
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Process	<p>The Biomass Depot Operator is responsible for the following processes:</p> <ul style="list-style-type: none">• Purchase agri-residue biomass from farmers/aggregators for stocking• Rebale to densify and store agri-residue bales• Maintain basic health and workplace safety.	<p>A professionally trained individual will be carrying out a range of jobs in familiar, predictable, routine situation of clear choice and approach such as purchase and aggregate primary biomass base based on quality standard requirement of biomass processing industries. S/He would densify the bales and sell it to a range of end use applications including bio-CNG or compost or biomass power or ethanol production units.</p> <p>The role qualifies as a Level 4 role, since it involves making several choices to be made even in a familiar context like purchase primary baled biomass based on quality standard and rebale to densify more. The role does not qualify for Level 5 as the job role is not required to make choices of the best procedures.</p> <p>This role requires the job holder to work in a familiar, predictable, routine of clear choice and the activities that h/she is expected to perform are not limited in</p>	4

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NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
		range. For example, s/he is expected to select bales as per quality standard, discuss the price of bales with processing unit as well as farmers or aggregators. S/he also has to ensure that the work area is safe and hygienic for working. Hence it cannot be placed at level 3.	
Professional knowledge	Biomass Depot Operator should be able to properly identify quality bales & functionality of baler and market to perform sale at best possible cost at biomass processing unit.	<p>The job holder is expected to exhibit previous knowledge of the supply chain operations at biomass processing unit and general safety. For example, s/he is expected to know the various types of faults that can occur in biomass baling operation, should know risks and hazards/ safe working practices/ tasks and activities to the required standard. S/he should also have the ability to speak read and write in the local vernacular language and English.</p> <p>Since all the above-mentioned areas are related to previous knowledge of the supply chain operations, the role qualifies for Level 4.</p> <p>The job holder is expected to know more than basic facts and principles, such as he/she is expected to study and understand moisture level of bales that</p>	4

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NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
		<p>affect quality standard, marketing strategy to sale and purchase bales. S/he is further expected to understand the various faults which can occur in the components/parts and their remedies. Since this role requires previous knowledge of the supply chain operations, it cannot be pegged at level 3.</p> <p>Further, since the job holder is not expected to be aware of principles/ process & general concepts in the field of operation and maintenance as a whole, it can't be pegged at level 5. For example, this role is not expected to have knowledge about the process and design modification in balers to improve baling quality.</p>	
Professional skill	The job holder is expected to use personnel protective equipment to protect from hay releases from baling operations. Further, the job holder must be able to take the day to day decisions and solve problem/s at work. The job holder should also be able to critically analyse the information gathered from different sources to perform day to day activities	<p>The job holder is expected to recall and demonstrate practical skills, which are routine and repetitive in a narrow range of application such as basic protocols to handle baler and understanding densification of loose agri residue that increases market demand.</p> <p>Since all the above-mentioned professional skill are related to demonstrating practical skills, which are routine and repetitive in a narrow range and using</p>	4

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Title/Name of qualification/component: Biomass Depot Operator			Level: 4
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
		<p>appropriate rule and tool, the role qualifies for Level 4.</p> <p>The Job holder expected to possess professional skills more than just demonstrating practical skills, which are routine and repetitive in a narrow range but also using appropriate rules & tools to analyse & interpret information. For example, S/he is expected to use quality concepts such fundamental principle of hay press and should have knowledge pertaining to different types of bales as rectangular or round that are required by the individual. Hence, the role can't be placed at Level 3.</p> <p>Further the job holder doesn't require to use much cognitive skills to accomplish tasks and solve problems at the workplace. The activities performed primarily practical skill. Hence the role can't be placed at level 5.</p>	
Core skill	The individual is expected to exhibit effective communication skills by communicating clearly with the helpers and understanding the instructions	The job holder is expected to exhibit effective oral communication skills (including awareness of vernacular language) so as to understand the	4

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NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<p>given by the his superior. Further, the individual is expected to perform respective record maintaining work and use basic arithmetic/ algebraic principles to identify common faults in the baler. The individual should also possess basic understanding of health and safety.</p>	<p>instructions of the supervisor as well as clearly instruct helpers while carrying out day to day maintenance activities. The job holder is also expected to possess reading and writing skills so as to read and understand equipment manuals, health and safety instructions, various signage and standard code and concepts well as well as maintain records as per organisation policies. The job holder is also expected to display basic arithmetic/ algebraic awareness to analyse and interpret the evaluation parameters of quality bales. The incumbent must understand the social, political of the local environment so as to communicate effectively with helpers who primarily belong to the surrounding regions and natural environment so as to identify common issues and faults which can affect the health of individual as well as baler.</p> <p>Since all the above-mentioned core skills are related to exhibiting effective oral, written communication skills along with basic understanding of the arithmetic principles as well as understanding of the social, political and natural environment such as clarifying</p>	

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NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
		<p>the client's understanding and expectation prior to commencement of treatment the role qualifies for Level 4.</p> <p>The Job holder expected to possess core skills more than just demonstrating minimum clarity in oral & written communication such as getting specific instructions from the reporting authority and carrying out activity or reporting specific observations from baler. Hence, the job holder can't be placed at Level 3.</p> <p>Further since the job holder doesn't require to use detailed mathematical skill or skill of collecting & organizing information such as collecting information regarding plant operating parameters, getting information from sub-ordinates and peers to identify possible issues and faults, the role can't be placed at level 5</p>	
Responsibility	The individual is primarily responsible to gain knowledge about standard protocols to run balers. S/he is also expected to update self with	Biomass Depot Operator is responsible for his/ her own work and learning. S/he is expected to update self with the standard protocols to run balers	4

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Title/Name of qualification/component: Biomass Depot Operator			Level: 4
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	densification of biomass and functioning of different balers through equipment manuals, books, etc	<p>using the available equipment manuals, etc. S/he is also expected to have significant on the job learning about the equipment and their maintenance procedures. S/he works under some supervision but primarily carries out his/her day to day activities independently. Thus s/he can be placed at level 4.</p> <p>Since the role holder is neither expected to be responsible of other's work and learning by the role can't be placed at level 5.</p> <p>Also as is evident from the above examples that the incumbent is fully responsible for responsible for his/her own work and learning rather than being responsible in defined limit since s/he gathers the practical skills/ techniques required to perform a task in the on the job, s/he analyses & interprets how to utilize the acquired skills & techniques while executing the maintenance activities and enhances his/her knowledge base about use of several tools, equipments and materials for a given task therefore s/he can't even be placed at Level 3.</p>	

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OPTION B

Title/Name of qualification/component: Enter the title here number			Level: Add level
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
Process			
Professional knowledge			
Professional skill			
Core skill			
Responsibility			

SECTION 3

EVIDENCE OF NEED

26	What evidence is there that the qualification is needed? What is the estimated uptake of this qualification and what is the basis of this estimate?	
	Basis	In case of SSC
	Need of the qualification	<p>The SSC would undertake market study and would outline demand forecast for the proposed job role both on short-term and long-term basis to substantiate the requirement of the Qualification proposed.</p> <p>One of the major causes of air pollution in India today is the practice of burning straw stubble and other agricultural residues left after crops have been harvested. To help address this problem, the Government of India has introduced policies to promote the effective utilization of agricultural residues as a primary and supplementary fuel stock for the bio-energy industry. These policies are expected to contribute to the continued expansion of the bio-energy industry in India, as part of a flourishing circular economy while creating enormous opportunities for rural youth in ensuring the reliable supply and management of agri residue for a range of end use industries.</p> <p>In India, these crop residues have not been able to achieve the economic potential they possess, primarily owing to the lack of a reliable supply chain mechanism for its collection and processing, which is critical for any biobased industry to succeed. As reported by Task Force on Biomass Management, NITI Aayog, power plants and industries are unable to utilize agricultural residue due to a fragmented and mismanaged biomass supply chain due to which many biomass plants across country have been discontinued/ not operating, due to the challenges arising from the biomass supply end. To broadly address these challenges on the sector, it is critical to identify measures which can enable the farmers and rural youth to gain entrepreneurial acumen and consider the crop residue as a resource and supply that to downstream industries for various end use utilisation.</p>
Industry	The SSC would undertake validation of the job	

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	Relevance	<p>roles with actual end-user industry where such employment are going to be generated and absorbed instead of generic validation of industry. The SSC would submit the endorsements from users/intended users of the qualification clearly supporting or otherwise the need for trained people against specific job role. (<i>The industry validation format to be used</i>)</p> <p>Despite the favourable economic, environmental and regulatory aspects, procurement and reliable supply of biomass remains the most difficult challenge in the bioenergy sector in the country. Biomass supply sector in India has largely remained dependent on unorganized and various local players who operate with very low degree of reliability, and supply inexpertly processed biomass that negatively impacts its quality and reduces the energy output of plants which has caused viability issues for several major plants. However, a lot of focus has been given on improving the biomass supply chain infrastructure recently which has also enabled the industry to conveniently procure biomass at sustainable prices, with zero capital investment and zero down time.</p> <p>The supply chain companies/Biomass project developers work in close collaboration with farmers and various regional agricultural stakeholders to procure biomass in a timely manner, also preventing open burning of crop residue. Trained workers are required by these companies/organisations to help them reliably run the supply chain of biomass.</p> <p>Evidence of the qualification is supported by validations with representation from across sub sectors. The complete list of validating companies has been enclosed as an annexure to the Q file.</p> <p>The qualification has been validation by up to 20 leading industry players, details of which have been attached in the validation sheet.</p>
	Usage of the qualification	The SSC would submit details of the employment generated (wherever applicable) and realised by virtue of training in the Qualifications of the sector earlier submitted for NSQF alignment.

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		<p>In case of unorganized sector, case studies or evidences may be given</p> <p>As per the job projections it is expected that with increased focus on bioenergy and a better and effective supply chain infrastructure, over 50,000 new jobs by 2025 will be created in rural areas.</p>
	Estimated uptake	<p>The SSC would submit the estimated uptake of the qualification and What steps were carried out to test the likely uptake of the qualification? The basis of this estimate should include data about the number of jobs or places in courses of learning which will be available to people who are awarded the qualification.</p> <p>Job was projected on the basis of total agri-residue generated by 2030. It is estimated that 703 million tons of total residue will be generated along with 348 million tons surplus. (Source: Purohit and Fisher, 2014 estimates). Considering a biomass depot/godown is of average 5000 tons of storing capacity, over 70,000 jobs by 2030 will be required only for storage function.</p>
27	Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences	<p>The present job role is aligned with the job roles in the SATAT Scheme of MoPNG along with various bioenergy schemes implemented by MNRE along with various schemes implemented by state Governments in northern region/ NCR to address air pollution issues.</p>
28	What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF? Give justification for presenting a duplicate qualification	<p>Currently, Skill Council for Green Jobs is the only Sector Skill Council set up which has the mandate of Certification and Assessment of candidates undergoing Skill Development courses in bioenergy domain. NSDC list of Approved QPs was checked prior to commissioning the work. There is no overlap of these Qualification Packs with existing Qualification Packs.</p> <p>The NCO/2015 Classification was cross examined for existing trades, wherein no overlap / existing trade was found.</p> <p>1. Discussing the growth trajectory within each occupation after studying organisational charts of various industry players across small, medium and large-scale organizations.</p>

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	<p>2. Exploring various lateral career opportunities for the discussed qualification</p> <p>3. Ensuring that there is a clear role up in terms of performance criteria qualification experience and skill requirement from lower NSQF Level to higher levels in the hierarchy.</p> <p>Please refer to attached career path as per annexure II which clearly defines the career path.</p>
29	<p>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? Specify the review process here</p> <p>Monitoring of evaluation of assessments and Employer feedback will be sought post-placement, for monitoring and review of the Qualification Pack. Periodic review is scheduled after 26/05/2020 as reference to page no. 2 of Qualification Pack attached at Annexure-I</p>

Please attach most relevant and recent documents giving further information about any of the topics above.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

Annexure I: Qualification Pack (Biomass Depot Operator)

https://www.nsdindia.org/sites/default/files/QP_SGJQ6207_Biomass_Depot_Operat_or_V1_09-04-2018.pdf

SECTION 4

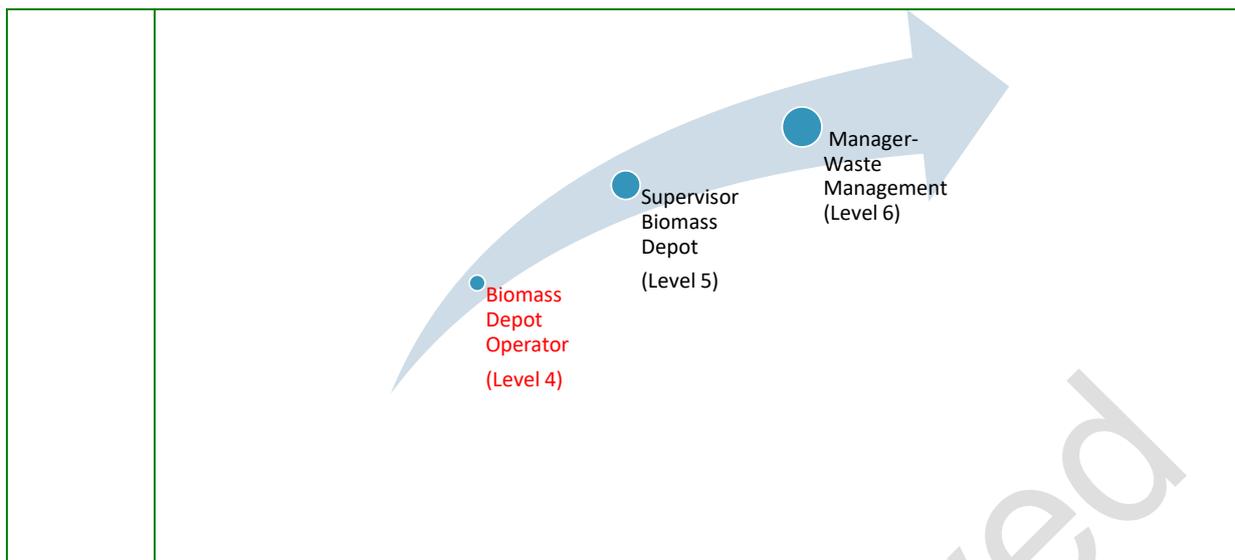
EVIDENCE OF PROGRESSION

30	<p>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?</p> <p><i>Show the career map here to reflect the clear progression</i></p> <p>Attached in Annexure-II</p>
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https://www.nsdindia.org/sites/default/files/QP_SGJQ6501_Manager-Waste_Management_Electives_Biomass%20Depot_Compost%20Yard_Dry_Waste_Center_v1_09-04-2018.pdf

Annexure II: Career Map

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