

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Directorate General of Training (DGT)
Government of India, Ministry of Skill Development and Entrepreneurship,
1st and 2nd Floor, CIRTES Building
Next to Pusa ITI, Pusa Campus
New Delhi - 110012

Name and address of submitting body:

Directorate General of Training (DGT)
Government of India, Ministry of Skill Development and Entrepreneurship,
1st and 2nd Floor, CIRTES Building
Next to Pusa ITI, Pusa Campus
New Delhi - 110012

Name and contact details of individual dealing with the submission

Name: Shri Deepankar Mallick

Position in the organisation: Deputy Director General (C & P)

Address if different from above:

Tel number(s): 011-25847035

E-mail address: deepankar.mallick60@nic.in

List of documents submitted in support of the Qualifications File

1. Competency-based curriculum (Annexure 1)
2. Advertisements of different organisations for posts relevant to NTC in the trade

Model Curriculum to be added which will include the following:

- **Indicative list of tools/equipment to conduct the training:** Enclosed with curricula
- **Trainers qualification:** Indicated in the curriculum
- **Lesson Plan:** All NCVT curricula are designed indicating specific practical to be carried out during training along with details of trade theory. Based on this the concerned instructor prepares the Lesson Plan with support of Reference Books and IMPs developed by DGT.
- **Distribution of training duration into theory/practical/OJT component:** Indicated in the curriculum.

SUMMARY

1	Qualification Title	‘Floriculture & Landscaping’
2	Qualification Code, if any	N/A
3	NCO code and occupation	3435.0500 – Floral Designer 6113.0601 – Floriculturist (Open Cultivation) 6113.0602 – Floriculturist (Protected Cultivation) 6130.0201 – Seed Grower/ Quality Seed Grower
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	National Council for Vocational Training (NCVT) (long term qualification)
5	Body/bodies which will award the qualification	National Council for Vocational Training (NCVT) affiliates the ITIs as per DGT guidelines issued from time to time.
6	Body which will accredit providers to offer courses leading to the qualification	National Council for Vocational Training (NCVT)
7	Whether accreditation/affiliation norms are already in place or not , if applicable (if yes, attach a copy)	Yes. The accreditation/ affiliation norms for all training providers are as per DGT guidelines issued from time to time with approval of NCVT.
8	Occupation(s) to which the qualification gives access	Floriculture & Landscaping has a wide scope of Employability ranging from self-employment, contractual employment to Industrial jobs. On successful completion of this course, the candidates shall be gainfully employed in the industries for following occupations: • Floral Designer • Floriculturist- (Open Cultivation) • Floriculturist- (Protected Cultivation) • Seed Grower/Quality Seed Grower
9	Job description of the occupation	The Individual knows about agro-meteorology, soil management & its conservation; performs simple and tongue layering, ground layering, air layering or goo tee; prepares ground and beds for planting specific flower crops; decides layout of plots and gardens, plans for home gardens, landscape gardens; prepares and executes landscape plants maintenance of gardens and lawns. Responsible for floral arrangement; preparation of floral ornaments bouquets etc; preparation of bottle gardens, terrarium etc.

10	Licensing requirements	N/A																								
11	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)	N/A																								
12	Level of the qualification in the NSQF	Level 4																								
13	Anticipated volume of training/learning required to complete the qualification	<table> <tr> <th>Sl. No.</th><th>Course Element</th><th>Notional Training Hours</th></tr> <tr> <td>1.</td><td>Professional Skill (Trade Practical)</td><td>1260</td></tr> <tr> <td>2.</td><td>Professional Knowledge (Trade Theory)</td><td>252</td></tr> <tr> <td>3.</td><td>Employability Skills</td><td>110</td></tr> <tr> <td>4.</td><td>Library & Extracurricular activities</td><td>58</td></tr> <tr> <td>5.</td><td>Project Work</td><td>240</td></tr> <tr> <td>6.</td><td>Revision & Examination</td><td>160</td></tr> <tr> <td></td><td>Total</td><td>2080</td></tr> </table>	Sl. No.	Course Element	Notional Training Hours	1.	Professional Skill (Trade Practical)	1260	2.	Professional Knowledge (Trade Theory)	252	3.	Employability Skills	110	4.	Library & Extracurricular activities	58	5.	Project Work	240	6.	Revision & Examination	160		Total	2080
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14	Indicative list of training tools required to deliver this qualification	As per Annexure enclosed in the curriculum																								
15	Entry requirements and/or recommendations and minimum age	Passed 10 th class examination under 10+2 system of education																								
16	Progression from the qualification (Please show Professional and academic progression)	- Can join Apprenticeship programs in different types of industries leading to a National Apprenticeship certificate (NAC). - Can join as floral designer, Floral sales representative, General Manager (Plantation) , General Manager, (Agricultural Farm)																								
17	Arrangements for the Recognition of Prior learning (RPL)	- At present the students who have passed 10th class with minimum 3 years' experience in relevant field can appear for NCVT theory and practical semester examination directly. - The students who have passed SCVT examination in 'Floriculture & Landscaping' trade can also appear for the NCVT Examination in the relevant semester and Trade directly.																								
18	International comparability where known (research evidence to be provided)	- Existence of any official document suggesting the comparability of the qualification with the qualifications in other countries is not known. - However, ITI passed out trainees are getting																								

	employment in many Gulf countries, European countries, Australia, New Zealand, Singapore etc.		
19	Date of planned review of the qualification.	March 2023	
20	Formal structure of the qualification		
	Mandatory components		
	Title of component and identification code/NOSs/Specific Learning outcomes	Estimated size (learning hours)	Level
(i)	Identify metrological instruments and understand the diversity within the profession of Floriculture.	160	4
(ii)	Identify Plant morphology, different plant varieties and plant families.	80	4
(iii)	Identify different Soil types, Methods of soil sampling and collection, detection on physical and chemical properties of soil, Interpret soil test reports for proper rectification.	120	4
(iv)	Measure Soil fertility and apply soil fertility management for improvement of fertility of soil.	100	4
(v)	Apply integrated nutrient Management system (INMS) in the field.	100	4
(vi)	Identify and select different propagation methods, Handling of seed, bulbs, cut flowers, Nursery plants, pot plants.	200	4
(vii)	Identify and apply method of vegetative propagation and its management.	120	4
Semester – II			
(viii)	Identify Commercial Flowers and their packaging.	320	4
(ix)	Identify the diseases and apply the pesticide as per requirement.	160	4
(x)	Plan and execute Survey for landscaping and various types of indoor gardening.	280	4

NSQF QUALIFICATION FILE

Floriculture & Landscaping

(xi)	Carry out Protected cultivation of flower.	40	4
(xii)	Revision, Project work and Examination	400	4
	Sub Total (A)	2080	4
	Optional components N/A (All components are compulsory)		
	Title of component and identification code/NOSs/ Learning outcomes	Estimated size (learning hours)	Level
	Sub Total (B)		
<u>Total (A+B)</u>		2080	4

SECTION 1

ASSESSMENT

21	Body/Bodies which will carry out assessment: National Council for Vocational Training (NCVT)																				
22	How will RPL assessment be managed and who will carry it out? 1. At present the students who have passed 10th class with minimum 3 years' experience can appear for NCVT theory and practical semester examination directly. 2. The students who have passed SCVT examination in 'Floriculture & Landscaping' trade can also appear for the NCVT Examination in the relevant semester and Trade directly. NCVT will carry out the assessment and State Directorates advertise in newspapers for informing the prospective candidates.																				
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. (1) Assessment process: The assessment for the semester-based qualification is carried out by conducting formative assessments, and end-of-semester examinations. The internal assessments for theory subjects and practical are conducted by the concerned instructors for evaluating the knowledge and skill acquired by trainees and the behavioural transformation of the trainees. This internal assessment is primarily carried out by collecting evidence of competence gained by the trainees by evaluating them at work based on assessment criteria, asking questions and initiating formative discussions to assess understanding and by evaluating records and reports, and sessional marks are awarded to them. Theory and practical examinations are conducted in Trade theory, and Employability Skills. The question papers for the theory Examinations contain objective type questions. Trade practical examinations are conducted by the respective State Governments. However, the question papers for the Trade practical are prepared by NCVT. The marking pattern and distribution of marks for the qualification are as under: <table><tr><th colspan="3">Marking Pattern</th></tr><tr><th>Sl. No.</th><th>Subject for the trade test</th><th>Maximum marks for the each subject</th></tr><tr><td>a)</td><td>Practical</td><td>100</td></tr><tr><td>b)</td><td>Trade Theory</td><td rowspan="2">80 Objective type Written test of 80 marks (Trade Theory 30 marks & Employability Skills 50 marks)</td></tr><tr><td>c)</td><td>Employability Skills</td></tr><tr><td>d)</td><td>Internal assessment</td><td>20</td></tr><tr><td colspan="2">TOTAL:</td><td>200</td></tr></table> (2) Minimum pass marks:	Marking Pattern			Sl. No.	Subject for the trade test	Maximum marks for the each subject	a)	Practical	100	b)	Trade Theory	80 Objective type Written test of 80 marks (Trade Theory 30 marks & Employability Skills 50 marks)	c)	Employability Skills	d)	Internal assessment	20	TOTAL:		200
Marking Pattern																					
Sl. No.	Subject for the trade test	Maximum marks for the each subject																			
a)	Practical	100																			
b)	Trade Theory	80 Objective type Written test of 80 marks (Trade Theory 30 marks & Employability Skills 50 marks)																			
c)	Employability Skills																				
d)	Internal assessment	20																			
TOTAL:		200																			

The minimum pass percentage for practical is 60% & minimum pass percentage of theory subjects is 40%. For the purposes of determining the overall result, 50% weightage is applied to the result of each semester examination.

(3) Testing and certifications for the course:

- OMR sheet based question paper.
- A panel of expert paper setters, who are graduates in the concerned field with minimum 5-7 years experience, is prepared for setting question papers for the Trade. The panel is vetted by the Member Secretary, NCVT.
- Paper setters are appointed from the panel after the approval of the competent authority for setting the question paper.
- The question papers are then moderated by the Board of Moderation to see if the paper is set as per the requirement and syllabus.
- The manuscripts of the moderated question papers are sent to Government Printing Presses for printing.
- Printed question papers, packed in sealed covers, are despatched to Banks/Police Stations for keeping in safe custody.
- The question papers are handed over to the Chairman/Principal of the Testing Centre two hours before the commencement of the Examination.
- An Examination Board consisting of representatives of industry/Employer/State Government are set up to supervise and monitor the conduct of Examinations at every Centre.
- Theory and practical Examinations are carried out with invigilators/examiners with the overall supervision of the Examination Board.
- Examiners called for evaluation of practical should have minimum technical qualification of a Diploma in the respective engineering field. However, when diploma holders not available, the qualification is suitably relaxed.
- Examiners for practical Examinations are appointed preferably from Polytechnics/ Engineering colleges/ Industry of repute/ Government Departments or from amongst retired qualified personnel possessing requisite qualifications and sufficient experience in the trade/discipline.
- Each State Directorate prepares a panel of Examiners according to the norms as mentioned above and the Examiners are appointed from the panel.
- Flying squads from State Governments as well as the Central Government are constituted to check malpractices during the conduct of Examinations.
- OMR based answer sheets are evaluated by the third party evaluator only. Third party evaluator is selected for three years by open bidding process.
- Evaluation of every practical examination is carried out by the concerned examiner (from industry/ polytechnics) with the overall supervision of the Examination Board in a free and fair manner as per the assessment criteria.
- Till 2014, the marks were compiled by the State Governments as per NCVT guidelines and the results were declared by the State Governments. At present, the marks are compiled by NCVT on its portal www.ncvtmis.gov.in and the results are declared by the State Governments.
- The successful trainees are awarded National Trade Certificates.

Overall assessment strategy:

Assessment of the qualification evaluates trainees to show that they can integrate

	knowledge, skills and values for carrying out relevant tasks as per the defined assessable outcomes and assessment criteria. The trainees may choose the preferred language for assessment. The underlying principle of assessment is fairness and transparency. While assessing the trainee, assessor is directed to assess as per the defined assessment criteria against the assessable outcomes. The evidence of the competence acquired by the trainees can be obtained by conducting theory and practical examinations, observing the trainees at work, asking questions and initiating formative discussions to assess understanding and evaluating records and reports. The ultimate objective of the assessment is to assess the candidates as per the defined assessment criteria for the assessable/ learning outcomes. Specific Arrangements for assessment: • Assessment is outcome-based. • There are formative and summative assessments in Theory and Practical. • Assessment is carried out in Trade theory, Trade Practical, and Employability Skills. • While Trade Theory and Trade Practical are used for assessing Trade-related jobs, and Employability skills is used to test the communication and language skills of the trainee. • In addition to demonstration of theory and practical knowledge, trainees get a chance to present total personality. Quality assurance activities: • Question papers are set by external paper setters • Evaluation of Theory Examinations is done by third-part agency. Third party evaluator is selected for three years by open bidding process. • Trade Practical is examined by External Examiner (as explained above).
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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 – i.e. Learning Outcomes to be assessed, assessment criteria and the means of assessment.

24. Assessment evidences

Title of Component: Floriculture & Landscaping

Means of assessment 1

Assessment will be evidence based comprising the following:

- Job carried out in labs/workshop
- Record book/ daily diary
- Answer sheet of assessment
- Viva-voce
- Progress chart
- Attendance and punctuality
- Assignment
- Project work

Means of assessment 2

Add boxes as required.

Pass/Fail

The minimum pass percentage for practical is 60% & minimum pass percentage of theory subjects is 40%. For the purposes of determining the overall result, 50% weightage is applied to the result of each semester examination.

GENERIC LEARNING/ ASSESSABLE OUTCOME:

Outcomes to be assessed/ NOSs to be assessed	Assessment criteria for the outcome
1. Apply safe working practices.	1.1 Follow and maintain procedures to achieve a safe working environment in line with occupational health and safety regulations and requirements, and according to policy.
	1.2 Recognize and report all unsafe situations according to policy.

	1.3	Identify and take necessary precautions on fire and safety hazards and report according to work policy and procedures.
	1.4	Identify, handle and store/ dispose-off dangerous goods and substances according to policy and procedures following safety regulations and requirements.
	1.5	Identify and observe policies and procedures with regard to illness or accident.
	1.6	Identify safety alarms accurately.
	1.7	Report supervisor/ competent of authority in the event of accident or sickness of any staff and record accident details correctly according to accident/injury procedures.
	1.8	Identify and observe evacuation procedures according to site policy.
	1.9	Identify Personal Productive Equipment (PPE) and use the same as per related working environment.
	1.10	Identify basic first-aid and use them under different circumstances.
	1.11	Identify different fire extinguisher and use the same as per requirement.
2. Comply with environment regulation and housekeeping.	2.1	Identify environmental pollution & contribute to the avoidance of instances of environmental pollution.
	2.2	Deploy environmental protection legislation & regulations.
	2.3	Take opportunities to use energy and materials in an environmentally friendly manner.
	2.4	Avoid waste and dispose waste as per procedure.
3. Assist in exigencies and carry out elementary first-aid during emergencies.	3.1	Demonstrate elementary first-aids.
	3.2	Demonstrate safety practices to be observed in kitchen.
	3.3	Demonstrate use of personal protective dresses.
	3.4	Identify emergency exit route.
	3.5	Demonstrate fire fighting procedure using fire extinguishers.
4. Work in a team, understand and practice soft skills, technical English to communicate with required clarity.	4.1	Obtain sources of information and recognize information.
	4.2	Use documents, regulations and occupationally related provisions.
	4.3	Conduct appropriate and target oriented discussions with higher authority and within the team.
	4.4	Present facts and circumstances, possible solutions & use English and French terminology.
	4.5	Resolve disputes within the team.

	4.6 Conduct written communication.
5. Explain energy conservation, global warming, pollution, and contribute in day- to-day work by using available resources optimally.	5.1 Explain the concept of energy conservation, global warming, and pollution and utilize the available resources optimally & remain sensitive to avoid environment pollution. 5.2 Explain standard procedure for disposal of waste.
6. Explain personnel finance, entrepreneurship and manage/organize related task in day-to- day work for personal & societal growth.	6.1 Explain personnel finance and entrepreneurship. 6.2 Explain role of various schemes and institutes for self-employment, financing/ non-financing support agencies to familiarize with the policies/ programmes, procedure & the available scheme. 6.3 Prepare a report to become an entrepreneur for submission to financial institutions.

Specific Assessable Outcome:

LEARNING / ASSESSABLE OUTCOME	ASSESSMENT CRITERIA
SEMESTER-I	
7. Identify metrological instruments and understand the diversity within the profession of Floriculture.	7.1 Importance of different elements of weather and climate in agriculture. 7.2 Knowledge on different agro-climatic regions of the country. 7.3 Knowledge on crops grown relating to seasonal pattern, its field preparation methods, sowing and harvest. 7.4 Identify different meteorological instruments and its use. 7.5 Observe the different meteorological data and draw sketches. 7.6 Knowledge on fundamentals of horticulture. 7.7 Identification of plants based on botanical classification. 7.8 List-out common names and botanical names 7.9 Describe the commercial importance of horticulture plants.
8. Identify Plant morphology, different plant varieties and plant families.	8.1 Knowledge on plant morphology. 8.2 Identify different plant varieties. 8.3 Identify different plant families.
9. Identify different Soil types, Methods of soil sampling and collection, detection on physical and chemical	9.1 Identify different soil types 9.2 Demonstrate soil sampling method, collection of soil, and procedure for sending to soil testing

properties of soil, Interpret soil test reports for proper rectification.	laboratory
	9.3 Knowledge on physical and chemical properties of soil
	9.4 Interpret soil test report
	9.5 Execute measurement of soil pH by litmus method and electronic pH meter.
	9.6 Analyze soil water holding capacity
	9.7 Demonstrate the use of soil testing kit.
	9.8 Knowledge on soil correction methods for acid soil, saline soil and alkaline soil.
	9.9 Demonstrate recycling methods of organic matter in soil
	9.10 Illustrate role of organic matter in soil.
	9.11 Demonstrate collection methods of Azolla and BGA.
	9.12 Describe the use of Azolla and BGA
10. Measure Soil fertility and apply soil fertility management for improvement of fertility of soil.	10.1 Knowledge on soil fertility and soil fertility management.
	10.2 Knowledge on fertilizer and organic manures.
	10.3 List out different methods of composting
	10.4 Differentiate between FYM, sludge, poultry manure, vermin compost and NADEP compost.
	10.5 Execute the process of vermin compost and NADEP compost
	10.6 Evaluate the nutrient content of FYM, sludge, poultry manure, vermin compost and NADEP compost.
	10.7 Describe the role of different organic matter on improving soil quality.
11. Apply integrated nutrient Management system (INMS) in the field.	11.1 Knowledge on Integrated nutrient management system (INMS)
	11.2 Knowledge on green manure crops, its cultivation and package of practice.
	11.3 Identify seeds of different green manure crops.
	11.4 Identify different green manure crops.
	11.5 List out different green manure crops.
	11.6 Demonstrate and describe the methods of incorporation of green manure crops for improving soil fertility.
12. Identify and select different propagation	12.1 Demonstrate different propagation methods

methods, Handling of seed, bulbs, cut flowers, Nursery plants, pot plants.	12.2	Demonstrate handling of seeds, bulbs, cut flowers, nursery plants and pot plants.
	12.3	Knowledge on environmental factors, photo-periodism, dormancy and growth regulators.
	12.4	Illustrate protected cultivation
	12.5	Identify and describe different garden tools
	12.6	Identify different diseases, insect and weeds
	12.7	Knowledge on irrigation and its management
	12.8	Concept on different type and methods of irrigation
	12.9	Install different irrigation systems
	12.10	Knowledge on water management
	12.11	Knowledge on nursery management and seed production methods
13. Identify and apply method of vegetative propagation and its management.	13.1	Demonstrate different methods of vegetative propagation
	13.2	Knowledge on management of vegetative propagation
	13.3	Demonstrate different methods of bulb and corm production
	13.4	Knowledge on harvest and storage of bulb/ corm of different flowering plants.
	13.5	Identify different ornamental plants, flowering plants, indoor and bonsai plants.
	13.6	Knowledge on grading and packaging of seeds, seedlings, rooted cuttings pot plants, lawn grass, trees, shrubs, cacti, bonsai etc.
	13.7	Demonstrate pruning and shaping of plants
	13.8	Knowledge selection of suitable plant species for landscaping, pot plants, lawn grass and bonsai
	13.9	Illustrate package of practice of pot plants, lawn grasses, landscape plants and bonsai.
SEMESTER-II		
14. Identify commercial Flowers and their packaging.	14.1	Identify commercial flowers.
	14.2	List out different commercial flowers.
	14.3	Illustrate package of practice of different commercial flowers.
	14.4	Knowledge on quality assessment, pulsing, conditioning, storage, packing of commercial flowers like lose flowers, long stem cut flowers, perennials, cut greens and annuals.
15. Identify the diseases and apply the pesticide as per requirement.	15.1	Identify pests and diseases.
	15.2	Prepare solution and application of sprays or dusts.

	15.3 Check quality parameters for cut flowers for domestic markets and for export.
16. Plan and execute Survey for landscaping and various types of indoor gardening.	16.1 Knowledge on survey and drafting methods for landscaping.
	16.2 Knowledge on making layouts and design for landscaping.
	16.3 Design and execute landscape garden.
	16.4 Knowledge on history, styles, scope and importance of gardening.
	16.5 Select plants for landscaping and gardening.
	16.6 Knowledge on maintenance of gardens and lawns.
	16.7 List out and describe different garden types.
	16.8 Demonstrate different styles of bottle garden and terrarium.
	16.9 Select different pot plants.
	16.10 Demonstrate the arrangement of different pot plants.
	16.11 Knowledge on maintenance of different pot plants.
	16.12 Demonstrate different floral arrangements.
	16.13 Demonstrate oriental, western and Japanese (Ikebana) floral arrangements.
	16.14 List out accessories and containers for floral arrangements.
	16.15 Prepare floral ornaments and bouquets.
	16.16 Knowledge on conditioning of cut flowers.
	16.17 Demonstrate arrangement of cut flower and cut green.
	16.18 Knowledge on prolonging self life of vase flowers.
17. Carry out Protected cultivation of flower.	17.1 Knowledge on protected cultivation of flowers.
	17.2 Identify poly house, shed net house and mulching.
	17.3 Construct ploy house, shed net house.
	17.4 Knowledge on mulching.

SECTION 2
25. EVIDENCE OF LEVEL
OPTION A

Title/Name of qualification/component: FLORICULTURE & LANDSCAPING			Level: 4
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Process	Familiar, Predictable, Routine Situations of Clear Choice • Measure Soil fertility and apply soil fertility management for improvement of fertility of soil. • Apply integrated nutrient Management system (INMS) in the field. • Identify and select different propagation methods, Handling of seed, bulbs, cut flowers, Nursery plants, pot plants. • Identify the diseases and apply the pesticide as per requirement. • Carry out Protected cultivation of flower.	The learner is expected to know & understand the importance of different elements of weather and climate in agriculture. He/she is able to list out different methods of composting, execute the process of vermin compost and NADEP compost. The person identifies seeds of different green manure crops, incorporates green manure crops for improving soil fertility using various methods like applying integrated nutrient management system(INMS). The learner is able to perform protected cultivation, install different irrigation systems, identifies pests & diseases & prepares solution and application of sprays or dusts. The above tasks are performed by the learner in familiar environment. And his/her work is routine type with situation of clear choices & hence predictable. So the NSQF level as per this descriptor will be 4.	4

Title/Name of qualification/component: FLORICULTURE & LANDSCAPING			Level: 4
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Professional knowledge	Factual Knowledge of field of Knowledge or study - Importance of different elements of weather and climate in agriculture- rainfall, temperature, humidity, sunshine, wind speed and direction. - Role of Green Manuring in crop production Green manuring - Bio-fertilizer, Chemical Fertilizers, Depletion of Soil fertility - Soil and climate, land preparation and planting, manuring, irrigation and other intercultural operations. - Scheduling/forcing of flowering, use of growth regulators	After the training the learner is able to understand the importance of weather and use of weather and climate information to enhance or expand agricultural crops and/or to increase crop production. He/she possess the factual knowledge of green manuring , its principles, methods and practices; also knows about different types of green manure crops like Dhaincha, Kalai, Cowpea, Sunhemp, Glyricidia & its cultivation process. The learner is able to schedule/force flowering by use of growth regulators. Hence NSQF Level 4 is justified for this descriptor.	4
Professional skill	- Identify metrological instruments and understand the diversity within the profession of Floriculture. - Identify Plant morphology, different plant varieties and plant families. - Identify and select different propagation methods, Handling of seed, bulbs, cut flowers, Nursery plants, pot plants.	The learner develops the ability to identify meteorological instruments and is able to install & record meteorological data. They are able to demonstrate recording of rainfall, temperature, humidity, wind direction etc. The individual possess the knowledge of physical form and external structure of plants with the help of which he/she is able to identify plant morphology- parts of roots, stems, flowers & seeds. They are able to propagate	4

Title/Name of qualification/component: FLORICULTURE & LANDSCAPING			Level: 4
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	- Identify and apply method of vegetative propagation and its management. - Identify the diseases and apply the pesticide as per requirement.	by cutting, budding, grafting . They are expected to perform seed treatment, soil treatment before sowing. Thus the learner demonstrate practical skills which are routine & repetitive in narrow range of application using appropriate quality concepts, rules & tools. Hence NSQF Level 4 is justified.	
Core skill	Language to communicate written or oral, with required clarity - Conduct appropriate and target oriented discussions with higher authority and within the team. Basic Mathematical Skills - Demonstrate basic mathematical concept and principles to perform practical operations. Basic understanding of social political and natural environment - Understand and explain the concept in productivity, quality tools, and labour welfare legislation and apply such in day to day work to improve productivity & quality.	The learner is able to read and write in simple English language and hence is able to communicate explain technical terms with required clarity. The learner can operate on computer as he possesses the basic knowledge of computer & its applications. Works as a team player and able to explain technical terms with required clarity. The learner performs the job complying environment regulation and housekeeping by applying safe working practices. Maintains energy conservation, prevents global warming & pollution by optimally using available resources in day to day work. Hence NSQF Level 4 is justified for this descriptor.	4

NSQF QUALIFICATION FILE

Floriculture & Landscaping

Title/Name of qualification/component: FLORICULTURE & LANDSCAPING			Level: 4
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Responsibility	- Identify different Soil types, Methods of soil sampling and collection, detection on physical and chemical properties of soil, Interpret soil test reports for proper rectification. - Identify and apply method of vegetative propagation and its management. - Plan and execute Survey for landscaping and various types of indoor gardening. - Identify Commercial Flowers and their packaging.	The learner is able to present facts , circumstances & possible solutions . He/she is expected to demonstrate the use of soil testing kit, analyze soil water holding capacity, interpret soil test reports, execute measurement of soil pH by litmus method and electronic pH meter. The learner is responsible for his own work & learning as he/she is capable for performing the above tasks on his own. Hence NSQF Level 4 is justified for this descriptor.	4

NSQF QUALIFICATION FILE*Floriculture & Landscaping***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? <table border="1"> <thead> <tr> <th data-bbox="341 472 625 613">Basis</th><th data-bbox="625 472 1209 613">In case of other Awarding Bodies (Institutes under Central Ministries and states departments)</th></tr> </thead> <tbody> <tr> <td data-bbox="341 613 625 777">Need of the qualification</td><td data-bbox="625 613 1209 777">The proposed qualification is running in the system for last few decades and passed out candidates are engaged in various related industries.</td></tr> <tr> <td data-bbox="341 777 625 1099">Industry Relevance</td><td data-bbox="625 777 1209 1099">The job role defined for the qualification is as per the National Qualification of Occupation 2015 which is developed by Employment Directorate under the ministry of Labour and Employment in collaboration with different industry partners and as per ILO guidelines. This justifies the qualification is very much relevance for industry.</td></tr> <tr> <td data-bbox="341 1099 625 1263">Usage of the qualification</td><td data-bbox="625 1099 1209 1263">The Proposed qualification is running in ITI system across the country successfully over the period of time.</td></tr> <tr> <td data-bbox="341 1263 625 1379">Estimated uptake</td><td data-bbox="625 1263 1209 1379">This is a New Trade. The present seating capacity is approximately 286.</td></tr> </tbody> </table>	Basis	In case of other Awarding Bodies (Institutes under Central Ministries and states departments)	Need of the qualification	The proposed qualification is running in the system for last few decades and passed out candidates are engaged in various related industries.	Industry Relevance	The job role defined for the qualification is as per the National Qualification of Occupation 2015 which is developed by Employment Directorate under the ministry of Labour and Employment in collaboration with different industry partners and as per ILO guidelines. This justifies the qualification is very much relevance for industry.	Usage of the qualification	The Proposed qualification is running in ITI system across the country successfully over the period of time.	Estimated uptake	This is a New Trade. The present seating capacity is approximately 286.
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27	Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences. This qualification is run by Ministry of Skill Development and Entrepreneurship and different industries under the related line ministry are also generally consulted before finalizing the curricula.										
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 The qualification is originally designed and approved by NCVT for the Craftsmen Training Scheme and is in existence for the last 60 years. NCVT has been entrusted with the responsibilities of prescribing standards and curricula for craftsmen training, advising the Government of India on the overall policy and programmes, conducting All India Trade Tests and awarding National Trade Certificates.										

29	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 • Mentor Council (MC) for the Agriculture Sector was formed in 2014 to review the curriculum of this qualification under the sector. • CSTARI, the research wing of DGT, reviews and updates the qualification, in consultation with industries and other stakeholders, on a regular basis by conducting trade committee meetings. • DGT will keep on doing continuous comparative study in the trade by referring to relevant upcoming qualifications in the National Qualifications Register (NQR) and relevant sectors.
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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.

SECTION 4

EVIDENCE OF PROGRESSION

30	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? <i>Show the career map here to reflect the clear progression</i> • Qualifying trainee will obtain an NCVT Certificate in FLORICULTURE & LANDSCAPING trade which gives the following options of progression to the trainee: i) National Apprenticeship Certificate will be designed in due course of time as this a new trade. ii) Entrepreneur.
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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.