



QUALIFICATION FILE

Tractor Service Mechanic

Short Term Training (STT) Long Term Training (LTT) Apprenticeship

Upskilling Dual/Flexi Qualification For ToT For ToA

General Multi-skill (MS) Cross Sectoral (CS) Future Skills OEM

NCrF/NSQF Level: 4

Submitted By:

Agriculture Skill Council of India

Unit No. 101, First Floor, Greenwoods Plaza, Block 'B', Greenwoods City, Sector 45, Gurugram -122009, Haryana.

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Section 1: Basic Details

1.	Qualification Name	Tractor Service Mechanic																	
2.	Sector/s	Agriculture																	
3.	Type of Qualification: <input type="checkbox"/> New <input checked="" type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	NQR Code & version of existing qualification: QG-04-AG-00337-2023-V1.1-ASCI	Qualification Name of existing/previous version: Tractor Service Mechanic																
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA																	
5.	National Qualification Register (NQR) Code &Version (Will be issued after NSQC approval)	QG-04-AG-03416-2024-V2-ASCI	6. NCrF/NSQF Level: 4																
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Certificate																	
8.	Brief Description of the Qualification	A Tractor Service Mechanic performs routine checks, carries out maintenance and repair of tractor engine and other parts. S/he also assembles repaired and serviced parts, checks the performance of the transmission, hydraulic and auto-electrical systems, etc.																	
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">S. No.</th> <th style="width: 55%;">Academic/Skill Qualification (with Specialization - if applicable)</th> <th style="width: 35%;">Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>12th or equivalent</td> <td></td> </tr> <tr> <td>2</td> <td>10th Class Pass</td> <td>3 Years of relevant experience in Agri and allied sectors</td> </tr> <tr> <td>3</td> <td>Previous NSQF Level 3.5</td> <td>1.5 Years of relevant experience in Agri and allied sectors</td> </tr> <tr> <td>4</td> <td>Previous NSQF Level 3.0</td> <td>3 Years of relevant experience in Agri and allied sectors</td> </tr> </tbody> </table> b. Age: 18			S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1	12 th or equivalent		2	10th Class Pass	3 Years of relevant experience in Agri and allied sectors	3	Previous NSQF Level 3.5	1.5 Years of relevant experience in Agri and allied sectors	4	Previous NSQF Level 3.0	3 Years of relevant experience in Agri and allied sectors
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4	Previous NSQF Level 3.0	3 Years of relevant experience in Agri and allied sectors																	
10.	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	13	11. Common Cost Norm Category (I/II/III) (wherever applicable): I																

12.	Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	NA																																				
13.	Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	<p><input checked="" type="checkbox"/>Offline <input type="checkbox"/>Online <input type="checkbox"/>Blended</p> <table border="1" data-bbox="943 245 2040 464"> <thead> <tr> <th>Training Delivery Modes</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>OJT Mandatory (Hours)</th> <th>OJT Recommended (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>150</td> <td>180</td> <td>60</td> <td></td> <td>390</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>(Refer Blended Learning Annexure for details)</p> <p>Option 1: Repair and maintenance of farm implements</p> <table border="1" data-bbox="943 580 2040 826"> <thead> <tr> <th>Training Delivery Modes</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>OJT Mandatory (Hours)</th> <th>OJT Recommended (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>10</td> <td>50</td> <td></td> <td></td> <td>60</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	150	180	60		390	Online						Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	10	50			60	Online					
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Online																																						
14.	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO-2015/7231.0300																																				
15.	Progression path after attaining the qualification (Please show Professional and Academic progression)	Tractor Service Mechanic(L4), Repair and Maintenance supervisor (Farm machinery)/ Custom Hiring in-charge (L5)																																				
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi																																				
17.	Is similar Qualification(s) available on NQR-if yes, justification for this qualification	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:																																				
18.	Is the Job Role Amenable to Persons with Disability	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", specify applicable type of Disability: SHI																																				
19.	How Participation of Women will be Encouraged	Batches specific to women will be formed																																				
20.	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No DGT/VSQ/N0102 (v1.0)																																				
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input type="checkbox"/> Yes <input type="checkbox"/> No Colleges <input type="checkbox"/> Yes <input type="checkbox"/> No																																				

22.	Name and Contact Details of Submitting / Awarding Body SPOC <i>(In case of CS or MS, provide details of both Lead AB & Supporting ABs)</i>	Name: Mr Srikanth Pampana Email: standards@asci-india.com Website: www.asci-india.com Contact No.: 0124-4670029	
23.	Final Approval Date by NSQC: 26-11-2024	24. Validity Duration: 3 years post NSQC Approval	25. Next Review Date: 26-11-2027

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer curriculum document.

Th.-Theory **Pr.**-Practical **OJT**-On the Job **Man.**-Mandatory Training **Rec.**-Recommended **Proj.**-Project

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1	Ensure Preparedness for Repair and maintenance of tractor	AGR/N1126 (v3.0)	Core	4	1	20	10			30	30	40		30	100	15
2	Perform routine checks of tractor	AGR/N1127 (v3.0)	Core	4	1	10	20			30	30	40		30	100	15
3	Carry out maintenance and repair of engine parts	AGR/N1128 (v3.0)	Core	4	2	15	45			60	30	40		30	100	20
4	Carry out maintenance and repair of transmission, hydraulic and electrical systems	AGR/N1129 (v3.0)	Core	4	3	20	70			90	35	40		25	100	20
5	Assemble the repaired and serviced parts	AGR/N1130 (v3.0)	Core	4	1	10	20			30	20	30		20	70	15
6	Maintain health and safety at the workplace	AGR/N9903 (v4.0)	Non-Core	4	1	15	15			30	40	25		35	100	10
7	Employability Skills (60 Hours) v1.0	DGT/VSQ/N 0102 (v1.0)	Non-Core	4	2	60				60	20	30			50	5
8	OJT (Mandatory)				2			60		60						
Duration (in Hours) / Total Marks						13	150	180	60	390	205	245		170	620	100

Elective NOS/s: Optional: Repair and maintenance of farm implements

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Carry out service and maintenance of tillage and soil farming equipment	AGR/N1119 (v3.0)	Core	4	2	10	50			60	30	40		30	100	15
Duration (in Hours) / Total Marks										60	30	40		30	100	

Assessment - Minimum Qualifying Percentage

Please specify **any one** of the following:

Minimum Pass Percentage – Aggregate at qualification level: 70 % (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

Minimum Pass Percentage – NOS/Module-wise: _____% (Every Trainee should score specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)

Section 3: Training Related

1.	Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	<p>Class 12th with Science and having any Certificate in course in Farm Mechanization from recognized institutes with 5 years of relevant industry or training experience in Agriculture Farm Machinery*</p> <p>*Ex-Service-Man including Ex- Paramilitary personnel: Minimum Qualification is 10+2 with an Honourable Discharge/Pension. SSC would consider a relaxation/waiver of sector-specific experience on case-to- case basis</p> <p>OR</p> <p>Diploma (Mechanical / Agriculture engineering) with 3 years of relevant industry or training experience in Agriculture Farm Machinery</p> <p>OR</p> <p>ITI (Mechanical/ Agriculture engineering) with 3 years of relevant industry or training experience in Agriculture Farm Machinery</p>
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		<p>OR</p> <p>Graduate (Agriculture) with 1 year of relevant industry of training experience in Agriculture Farm Machinery**</p> <p>** For school Program minimum qualification of Trainer should be Graduate (Agriculture/Agri Engineering). Their Teaching experience will be considered industry experience</p> <p>OR</p> <p>B. Tech in Mechanical / Agriculture engineering</p>
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	<p>5 years of training experience in Agriculture/Farm Machinery/Mechanical Engineering and related streams and Graduation (Agriculture) with 2 year of relevant industry experience in Agriculture Farm Machinery</p> <p>OR</p> <p>5 years of training experience in Agriculture/Farm Machinery/Mechanical Engineering and related streams and B. Tech. (Mechanical / Agriculture engineering) with 1 year of relevant industry experience in Agriculture Farm Machinery</p>
3.	Tools and Equipment Required for Training	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If "Yes", details to be provided in Annexure)
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	NA

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	<p>Graduation (Agriculture/Agriculture Engineering/ Mechanical Engineering and related streams) with 3 year of relevant industry experience in Agriculture Farm Machinery</p> <p>OR</p> <p>M. Tech/M.Sc. (Agriculture/ Agriculture Engineering/Mechanical Engineering/Farm Machinery) with 2 year of relevant industry experience in Agriculture Farm Machinery</p> <p>OR</p> <p>PhD (Agriculture /Agriculture Engineering/Farm engineering and related streams) with 1 year of relevant industry experience in Agriculture Farm Machinery</p>
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2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Diploma/Graduate (It is mandatory for a proctor to have technical knowledge/IT knowledge Once a proctor has been on-boarded by any AA, they are oriented about skill ecosystem along with do's and don'ts .)
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Post-Graduation (Agriculture/ Agriculture Engineering/Mechanical Engineering or related streams) with 10 years of relevant experience in Agriculture Farm Machinery
4.	Assessment Mode (Specify the assessment mode)	Offline
5.	Tools and Equipment Required for Assessment	<input checked="" type="checkbox"/> Same as for training <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (details to be provided in Annexure-if it is different for Assessment)

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	Latest Skill Gap Study (not older than 2 years) (Yes/No): Yes
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): No
3.	Government /Industry initiatives/ requirement (Yes/No): Yes, Government Initiative, part of PMKVY 4.0
4.	Number of Industry validation provided: 5
5.	Estimated nos. of persons to be trained and employed: 2000
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: Yes

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	Annexure: NCrf/NSQF level justification based on NCrf level/NSQF descriptors (Mandatory)	Annexure-1
2.	Annexure: List of tools and equipment relevant for qualification (Mandatory, except in case of online course)	Annexure-2
3.	Annexure: Detailed Assessment Criteria (Mandatory)	Annexure-5
4.	Annexure: Assessment Strategy (Mandatory)	Annexure-6

5.	Annexure: Blended Learning (<i>Mandatory, in case selected Mode of delivery is “Blended Learning”</i>)	NA
6.	Annexure: Multiple Entry-Exit Details (<i>Mandatory, in case qualification has multiple Entry-Exit</i>)	NA
7.	Annexure: Acronym and Glossary (<i>Optional</i>)	
8.	Supporting Document: Model Curriculum (<i>Mandatory – Public view</i>)	Annexure-7
9.	Supporting Document: Career Progression (<i>Mandatory - Public view</i>)	Custom Hiring Centre In-charge (Agri machinery)/ Repair and maintenance supervisor (Farm Machinery) (L5)
10.	Supporting Document: Occupational Map (<i>Mandatory</i>)	Annexure-8
11.	Supporting Document: Assessment SOP (<i>Mandatory</i>)	Annexure-9
12.	Any other document you wish to submit:	

Annexure 1: Evidence of Level

NCRF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCRF/NSQF level descriptor	NCRF/NSQF Level
Process	<ul style="list-style-type: none"> ● Prepare for the tractor's repair and maintenance ● Perform routine checks, correct functioning of gauges ● Inspect the engine parts, dismantle the engine part. ● Carry out repair and maintenance of a diesel engine with Common Rail Fuel system ● Perform maintenance and repair of the transmission system, hydraulic system, electrical system 	A Tractor Service Mechanic is responsible for carrying out repair and maintenance activities of various parts of a tractor.	4
Professional Knowledge	<ul style="list-style-type: none"> ● the importance of checking the tractor's previous repair and maintenance record ● the importance of using manufacturer approved tools, equipment and spare parts 	The job holder is required to have professional knowledge required for the job, such as standard tractor repair and maintenance procedures,	4

	<ul style="list-style-type: none"> ● relevant hand/ power tools and equipment and their preparation for use ● necessary checks before, during and after starting a tractor ● how to check for bleeding or air locks in the fuel system ● benefits of resource optimisation ● PPE required for the repair and maintenance of a tractor 	<p>procedures and processes for performing routine checks on tractor parts, safety precautions to be undertaken during operations, standard dismantling procedures followed by the organization, functioning of hydraulic, transmission, and auto electrical systems, organization procedures for performing pre start checks.</p>	
<p>Professional Skill</p>	<ul style="list-style-type: none"> ● basic terminology used for various tractor components and systems ● the importance of checking the tractor's previous repair and maintenance record ● the importance of using manufacturer approved tools, equipment and spare parts ● appropriate environment for the repair and maintenance of a tractor ● different systems of a tractor and common faults found with them ● necessary checks before, during and after starting a tractor ● importance of following environmental and ecological best practice to minimize the impact on the environment ● different systems of engines such as air intake and exhaust system, fuel supply system, cooling system, lubrication system, governing system, etc. 	<p>The job holder must possess professional skills for performing the job, which include decision making, planning and organizing, customer centricity, problem solving, analytical thinking, such as handle issues pertaining to machine parts and equipment and decide corrective actions to be taken, plan and prioritize work based on instructions received, ensure proper fault finding and solution generation in consultation with key stakeholders such as farmers and team members, technicians, etc.</p>	<p>4</p>

<p>Core Skill</p>	<ul style="list-style-type: none"> • different tractor implements such as harrow, rotavator, seed drills and common faults with them • recommended level of engine oil, hydraulic oil, transmission oil, steering box oil, coolant and fuel in a tractor • functioning of the temperature gauge, low oil pressure warning lamp, hour meter • different engine components, their design and materials used, assembling and disassembling of parts, their cleaning, repair and adjustment • maintenance and troubleshooting of different types of clutches such as single clutch and dual clutch • steering geometry, sequential dismantling of steering linkages, steering gear box, front axle hubs, pivot pins, re-assembling and critical settings. 	<p>The job holder should have core skills for performing the job which includes writing skills, reading skills, and oral and communication skills, such as note information communicated, note the equipment to be used, effectively communicate with farmers and team members, read and interpret the operator and maintenance manual, attentively listen to and comprehend the information given by the speaker.</p>	<p>4</p>
<p>Responsibility</p>	<ul style="list-style-type: none"> • The user/individual must know and understand how to identify and study the different parts of a tractor • identify tools and measuring instruments required • carry out routine maintenance of tractor, perform fluid and lubricant checks, check the working of all gauges • dismantle engine parts and check their working, assess the wear and tear of engine components • check the working and performance of transmission system, check the working and performance of hydraulics system 	<p>A Tractor Service Mechanic performs routine checks, carries out overhauling and repair of engine parts and assembly of repaired and serviced parts, assesses transmission, hydraulic and auto-electrical systems, etc.</p>	<p>4</p>

	<ul style="list-style-type: none"> ● check the working and performance of auto-electrical system, clean and lubricate the parts, assemble parts ● perform pre start checks, maintain a clean and efficient workplace ● render appropriate emergency procedures 		
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Annexure 2: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	Seed Drill	Nos	1
2	Video Recording Equipment	Nos	1
3	Mould Board Plough	Nos	1
4	Hand vice	Nos	1
5	Mallets (Wooden/plastic)	Nos	1
6	Hand reamer adjustable	Nos	1
7	Horses and wheel choke	Nos	1
8	Tachometer	Nos	1
9	Cross peen Hammer	Nos	1
10	Hydraulic jack	Nos	1
11	Oil can	Nos	1
12	Ball peen Hammer	Nos	1
13	Torque wrench	Set	1
14	Grease Gun Hand/Pneumatic	Nos	1
15	Chain and Pulley block	Nos	1
16	Work bench with 4 bench vices 12 cm jaw	Nos	1
17	Hydrometer	Nos	1
18	Harrow	Nos	1
19	Tractor Trailer	Nos	1

20	Tractor	No	1
21	Steel Rule	No	1
22	Hand files	Set	1
23	Feeler gauge	set	1
24	Engineer`s square	Nos	1
25	Divider spring joint	Nos	1
26	Allen Key set of 12 pieces	set	1
27	Pick punch	Nos	1
28	Set of Screw driver	No	1
29	Chisel cold	Nos	1
30	Hacksaw frame adjustable	Nos	1
31	Drill electric hand	Nos	1
32	Air Compressor	Nos	1
33	Centre punch	Nos	1
34	Drift punch copper	Nos	1
35	Scriber	Nos	1
36	Chisels Cross cut	Nos	1
37	Taps and Dies complete set in a box (metric) with handle.	set	1
38	Spanner D E	Set	1
39	Ring spanner	Set	1
40	Spanner (adjustable)	Nos	1
41	Spanner adjustable (pipe wrench)	Nos	1
42	Spanners socket of 8 with handles, T bar and ratchet	Nos	1

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Whiteboard
2. Markers

Annexure 3: Industry Validations Summary

Provide the summary information of all the industry validations in table. This is not required for OEM qualifications.

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1	Mahindra and Mahindra Ltd Farm division	Soumitra Choudhury	Head- Training	Nagpur	9766699020	Choudhury.soumitra@mahindra.com	
2	Farm Implements India Pvt Ltd	D S Balachandra Babu	Managing Director	Chennai	04428261676	Balachandra.babu@gmail.com	
3	Varsha Agri Business Centre for Development Ltd	Mallamma	Business Development	Chitradurga	9448396283	Info.abc4d.in	
4	K.K. Wagh College of Agricultural Engineering & Technology	Prof. Anil Nivruthi Shinde	Assistant Professor	Nashik	8975388803	anilg.shinde5@gmail.com	
5	Directorate of Agriculture Engineering, Bhopal	Dr Rajeev Chaudhary	Director Agricultural Engineering	Bhopal	07552583313	dagebho@mp.gov.in	

Annexure 4: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates		Women		People with Disability	
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2024-25	500					
2025-26	500					
2026-27	1000					

Data to be provided year-wise for next 3 years

Training, Assessment, Certification, and Placement Data for previous versions of qualifications:

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed

3.0	2022-24	1967											
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Applicable for revised qualifications only, data to be provided year-wise for past 3 years.

List Schemes in which the previous version of Qualification was implemented: `

1. PMKVY

Content availability for previous versions of qualifications:

Participant Handbook Facilitator Guide Digital Content Qualification Handbook Any Other:

Languages in which Content is available: Hindi and English

Annexure 5: Detailed Assessment Criteria

Detailed assessment criteria for each NOS/Module are as follows:

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
AGR/N1126: Ensure Preparedness for Repair and maintenance of tractor	<i>Prepare for the tractor's repair and maintenance</i>	30	40		30
	PC1. identify the tractor's manufacturer, model and any special requirements along with the maintenance schedule				
	PC2. determine any existing issues with the tractor through discussion with the client and studying the previous repair and maintenance record				
	PC3. arrange manufacturer-approved tools, equipment, spare parts and PPE for the repair and maintenance activities				
	PC4. prepare the repair and maintenance tools and equipment for use				
	PC5. select a well-ventilated and hazard-free area to carry out tractor repair and maintenance				
	PC6. prepare the worksheet and obtain the client's approval to initiate the repair and maintenance activities				
	PC7. Familiarize different tools used for repair and maintenance and different make & models of tractors				
	<i>Perform routine checks on the tractor</i>	15	20		15
	PC1. inspect the tractor visually to identify any cracks or damages				

AGR/N1127: Perform routine checks and maintenance of tractor	PC2. check clutch, gears, brakes, steering, engine, hydraulic and electrical systems for correct functioning				
	PC3. test the working of implements such as harrow, rotavator, seed drills, etc				
	PC4. examine the fan belt for any damage and recommended level of tension				
	PC5. check the engine oil, hydraulic oil, transmission oil, steering box oil, coolant and fuel for the prescribed levels				
	PC6. examine for any leakage in the engine, transmission, hydraulic and steering				
	PC7. check for any bleeding or air locks in the fuel system				
	<i>Check the gauges for correct functioning</i>	8	12		10
	PC8. check the temperature gauge for correct functioning				
	PC9. check the low oil pressure warning lamp				
	PC10. inspect the hour meter for correct functioning				
	<i>Optimise resource utilisation</i>	7	8		5
	PC11. optimise usage of various material in different tasks/ activities/ processes				
	PC12. optimise usage of electricity/energy in various tasks/ activities/ processes				
	PC13. connect electrical tools and equipment safely and turn off when not in use				
	PC14. segregate waste into different categories				
	PC15. dispose non-recyclable waste appropriately				
PC16. deposit recyclable and reusable material at the identified location					
Total Marks		30	40	-	30
AGR/N1128: Carry out maintenance and repair of engine parts	<i>Dismantle the engine parts</i>	5	8		5
	PC1 examine engine compression pressure, turbo charger, and exhaust gas recirculation systems				
	identify the type of engine, its components and working mechanism				
	PC3 arrange the necessary tools and protective gear for dismantling				
	PC4. carry out dismantling as per instructions in the service manual				

	<i>Inspect the engine parts</i>	12	15		10
	PC5. clean the dismantled parts and accessories as per the Standard Operating Procedure (SOP)				
	PC6. examine the dismantled parts for any damage				
	PC7. inspect cylinder head to identify the need to replace it				
	PC8. check the water temperature gauge, sensors, and thermostat for correct functioning				
	PC9. inspect engine front cover, front oil seal and rear oil seal to identify any replacement needs				
	PC10. assess the taperness and ovality of cylinder bore				
	PC11. check the ovality of crank shaft/bearings for the prescribed measurement				
	PC12. measure the piston rings' side clearance and butt clearance for the prescribed measurement				
	PC13. examine valves for spring stiffness and clearance adjustment				
	PC14. check for clearance between the gear and oil pump body				
	<i>Carry out repair or replacement</i>	5	8		5
	PC15. refill distilled water in the battery to maintain the electrolyte level				
	PC16. replace the oil filter, air filter, fuel filter, transmission filter, hydraulic filter and steering filter as per the Standard Operating Procedure (SOP)				
	PC17. flush the radiator after opening it as per the service manual				
	PC18. use the appropriate tools and equipment as per the service manual to carry out maintenance and repair activities				
	PC19. replace any worn out or damaged engine parts with authentic new parts				
	PC20. maintain the record of maintenance and repair activities				
	<i>Carry out repair of and maintenance of a diesel engine with Common Rail Fuel System</i>	8	9		10
	PC21. arrange the relevant tools required for the removal of injectors				
	PC22. conduct compression test as per the SOP				
	PC23. remove the engine head and check the intake valve and exhaust valve condition to ensure there is no leakage				

	PC24. check the piston ring and oil rings for any wear and tear or damage				
	PC25. check the oil rings wear and tear or damage				
	PC26. fit the rocker arm as per the service manual				
	PC27. repair/ replace the piston ring as per the requirement				
	PC28. assemble the engine after repair and maintenance				
	Total Marks	30	40	-	30
AGR/N1129: Carry out maintenance and repair of transmission, hydraulic and electrical systems	Perform maintenance and repair of the transmission system	20	25		15
	PC1. dismantle the transmission system using the appropriate tools and equipment				
	PC2. check gear box, rear axle, Power Take-Off (PTO) for correct performance	-	-	-	-
	PC3. check for the recommended free play setting of the clutch and brakes	-	-	-	-
	PC4. examine the wheel hub bearing play to identify the need to replace the bearings				
	PC5. examine all nuts and bolts for the recommended torque and locking				
	PC6. inspect dry disc brake and Oil Immersed Brake (OIB) for correct functioning				
	PC7. check the bull and pinion gear, epicyclic gear train and wheel assembly for correct performance	-	-	-	-
	PC8. check linkages in power-steering, steering pump, steering cylinders and the steering system	-	-	-	-
	PC9. examine the 2-wheel-drive front axle centre pin, stub axle and wheel assembly	-	-	-	-
	PC10. examine the 4-wheel-drive front axle drop box, propeller shaft, differential, axle shaft and wheel assembly	-	-	-	-
	PC11. align the clutch using the appropriate tool	-	-	-	-
	PC12. adjust wheel tracking as per the requirement	-	-	-	-
	PC13. adjust the steering geometry as per the requirement	-	-	-	-
	PC14. carry out maintenance and repair of gear and gearbox to resolve the issue of gearbox noise, oil leakage and slipping of gear	-	-	-	-
	PC15. replace the worn-out brake discs	-	-	-	-
PC16. replace oil seals on axle shaft and bearings as per the requirement	-	-	-	-	

	<i>Perform maintenance and repair of the hydraulics system</i>	10	10		5
	PC17. dismantle the hydraulic system as per the service manual using the appropriate tools and equipment	-	-	-	-
	PC18. examine the hydraulic pump for correct functioning	-	-	-	-
	PC19. inspect the hydraulic distributor/ control valve, hydraulic pipes and hydraulic cylinder components for any faults	-	-	-	-
	PC20. examine the quality of hydraulic oil and linkages	-	-	-	-
	PC21. check hydraulic system pressure and external hydraulics auxiliary valve for correct functioning	-	-	-	-
	PC22. check the tractor's 3-point linkage for any wear and tear or damage	-	-	-	-
	PC23. adjust draft control and position control levers as per the requirement	-	-	-	-
	<i>Perform maintenance and repair of the electrical system</i>	5	5		5
	PC24. check the cables for any wear and tear or damage	-	-	-	-
	PC25. check Revolutions Per Minute (RPM) gauge, hour meter, fuel gauge, battery charging indicator for any faults	-	-	-	-
	PC26. test the performance of alternator, self- starter, starting system, relays, fuses, headlights, plough lamp, brake lights, indicator lights and horns	-	-	-	-
	NOS Total	35	40		25
	AGR/N1130: Assemble the repaired and serviced parts	<i>Clean and assemble the parts</i>	10	15	
PC1. clean the moving parts/shafts and bearings		-	-	-	-
PC2. apply lubricant on the parts/shafts and bearings		-	-	-	-
PC3. set draft control levers in the correct position		-	-	-	-
PC4. adjust the gearbox bearings		-	-	-	-
PC5. fit the cage wheel and adjust track		-	-	-	-
PC6. apply sealant on any leakages		-	-	-	-
PC7. tighten any loose parts		-	-	-	-
PC8. assemble parts as per the service manual		-	-	-	-
PC9. check engine idle Revolutions Per Minute (RPM)					
PC10. check fuel system, lubrication system, cooling system, air intake and exhaust system for correct functioning					
<i>Perform pre-start checks</i>		10	15		10
PC11. check tyre pressure for suitability for various operations		-	-	-	-
PC12. check for fuel bleeding before starting the tractor	-	-	-	-	

	PC13. monitor the tractor for correct functioning after starting the engine	-	-	-	-
	PC14. carry out troubleshooting for any issues identified	-	-	-	-
	NOS Total	20	30		20
AGR/N9903: Maintain health and safety at the workplace	<i>Maintain personal hygiene</i>	10	5		10
	PC1. wash hands, legs and face with soap/alcohol-based sanitizer at reasonable intervals				
	PC2. wash the worn clothes with soap and sun-dry before use next time	-	-	-	-
	PC3. ensure the face is covered with mask or three layers of cloth-piece				
	PC4. follow the workplace sanitisation norms including distancing from sick people	-	-	-	-
	<i>Maintain clean and safe workplace</i>				
	PC5. carry out basic safety checks before operation of all tools, implements, and machinery and report identified hazards to the supervisor	15	15		15
	PC6. wear appropriate Personal Protective Equipment (PPE) while performing work in accordance with the workplace policy				
	PC7. follow the instructions mentioned on the labels of chemicals/pesticides/fumigants etc. to avoid hazards				
	PC8. assess risks prior to performing manual handling jobs, and work according to currently recommended safe practices				
	PC9. sanitize equipment, tools and machinery before and after use				
	PC10. use equipment and materials safely and correctly and return the same to designated storage after use				
	PC11. dispose waste safely and correctly in the designated area				
	PC12. recognize risks to bystanders and take required action to reduce the risks				
PC13. work in a manner which minimizes environmental damage, ensuring all procedures and instructions for controlling risks are followed					
PC14. report any accidents, incidents or problems without delay to an appropriate person and take necessary immediate action to reduce further danger					

	PC15. follow government / workplace advisories in case of outbreak of any disease/disaster			
	<i>Administer appropriate emergency procedures</i>			
	PC16. follow procedures for dealing with accidents, fires and emergencies, including communicating location and directions to the location of emergency, as per the workplace requirements			
	PC17. use emergency equipment in accordance with manufacturer's specifications and workplace requirements			
	PC18. report provide treatment appropriate to the patient's injuries in accordance with recognized first aid techniques			
	PC19. recover (if practical), clean, inspect/test, refurbish, replace and store the first aid equipment as appropriate			
	PC20. report details of first aid administered in accordance with workplace procedures			
NOS Total	40	25	35	
(Optional) AGR/N1119: Carry out repair and maintenance of tillage and soil farming equipment	<i>Carry out repair and maintenance of mouldboard plough</i>	8	12	8
	PC1. check the mouldboard plough for smooth movement			
	PC2. inspect that the nuts and bolts are secured tightly			
	PC3. remove soil and any other waste from the mouldboard plough			
	PC4. apply grease/ lubricant on mould board plough to prevent rusting			
	PC5. sharpen the bar point and shares			
	PC6. adjust the level of the plough, horizontal suction, vertical suction and draft of the plough			
	PC7. replace any wornout or damaged parts as per the Standard Operating Procedure (SOP)			
	<i>Carry out repair and maintenance of disc plough</i>	8	12	8
	PC8. inspect all nuts and bolts for locking and the recommended torque			
	PC9. check the bearings and castle nuts are secured tightly			
	PC11. clean the hub of disc plough using diesel oil			
	PC12. adjust the horizontal disc angle, vertical tilt angle, width of cut, level of plough and scrapper position as per the service manual			
PC13. change the degree of hub by loosening the mounting bolts when the diameter of disc reduces below the prescribed level				

	PC14. replace the grease nipple if contaminated with soil					
	PC15. replace the wornout disc plough hub seal with a new one					
	<i>Carry out repair and maintenance of disc harrow</i>	10	10		10	
	PC16. inspect the disc gang angle and gang assembly for wear and tear or damage					
	PC17. check the scrapper for correct assembly					
	PC18. inspect the depth control system for correct functioning					
	PC19. check the angle of hitch and hitch parts					
	PC20. examine all joints, bolts, nuts and pins for the prescribed torque and locking					
	PC21. measure the disc spacing and diameter for the prescribed dimensions					
	PC22. sharpen the harrow discs					
	PC23. apply the recommended grade of grease/ lubricant on bearing assembly, mating parts and greasing points					
	PC24. replace any damaged discs, spool flanges, gang bolts and gang bearings as per the SOP					
	PC25. replace the worn out or damaged pins, nuts and bolts with the new ones					
	<i>Carry out repair and maintenance of cultivator</i>	4	6		4	
	PC26. examine the level of the cultivator to ensure all the shovels touch the ground					
	PC27. check the shovel for the correct angle					
	PC28. inspect the tyres for uniform spacing					
	PC29. check the nuts and bolts for the prescribed torque and locking					
	PC30. remove accumulated soil, trash or grease on the cultivator by washing it					
	PC31. apply grease/ lubricant on all nuts and bolts					
	PC32. replace the worn out or damaged shovel points					
	NOS Total	30	40	0	30	
	DGT/VSQ/N0102: Employability Skills (60 Hours)	<i>Introduction to Employability Skills</i>	1	1		
		PC1. identify employability skills required for jobs in various industries				
PC2. identify and explore learning and employability portals						
<i>Constitutional values – Citizenship</i>						

		1	1		
	PC3. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.				
	PC4. follow environmentally sustainable practices				
	<i>Becoming a Professional in the 21st Century</i>	2	4		
	PC5. recognize the significance of 21st Century Skills for employment				
	PC6. practice the 21st Century Skills such as Self Awareness, Behaviour Skills, time management, critical and adaptive thinking, problemsolving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life				
	<i>Basic English Skills</i>	2	3		
	PC7. use basic English for everyday conversation in different contexts, in person and over the telephone				
	PC8. read and understand routine information, notes, instructions, mails, letters etc. written in English				
	PC9. write short messages, notes, letters, emails etc. in English				
	<i>Career Development & Goal Setting</i>	1	2		
	PC10. understand the difference between job and career				
	PC11. prepare a career development plan with short and longterm goals, based on aptitude				
	<i>Communication Skills</i>	2	2		
	PC12. follow verbal and nonverbal communication etiquette and active listening techniques in various settings				
	PC13. work collaboratively with others in a team				
	<i>Diversity & Inclusion</i>	1	2		
	PC14. communicate and behave appropriately with all genders and PwD				

PC15. escalate any issues related to sexual harassment at workplace according to POSH Act				
<i>Financial and Legal Literacy</i>	2	3		
PC16. select financial institutions, products and services as per requirement				
PC17. carry out offline and online financial transactions, safely and securely				
PC18. identify common components of salary and compute income, expenses, taxes, investments etc				
PC19. identify relevant rights and laws and use legal aids to fight against legal exploitation				
<i>Essential Digital Skills</i>	3	4		
PC20. operate digital devices and carry out basic internet operations securely and safely				
PC21. use e mail and social media platforms and virtual collaboration tools to work effectively				
PC22. use basic features of word processor, spreadsheets, and presentations				
<i>Entrepreneurship</i>	2	3		
PC23. identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research				
PC24. develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion				
PC25. identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity				
<i>Customer Service</i>	1	2		
PC26. identify different types of customers				
PC27. identify and respond to customer requests and needs in a professional manner.				
PC28. follow appropriate hygiene and grooming standards				
<i>Getting ready for apprenticeship & Jobs</i>	2	3		
PC29. create a professional Curriculum vitae (Résumé)				

	PC30. search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively				
	PC31. apply to identified job openings using offline/online methods as per requirement				
	PC32. answer questions politely, with clarity and confidence, during recruitment and selection				
	PC32. answer questions politely, with clarity and confidence, during recruitment and selection				
	PC33. identify apprenticeship opportunities and register for it as per guidelines and requirements				
	Total Marks	20	30		
Grand Total		205	245		170

Annexure 6: Assessment Strategy

This section includes the processes involved in identifying, gathering, and interpreting information to evaluate the Candidate on the required competencies of the program.

1. Assessment System Overview

In Agriculture Sector it is of ultimate importance that individuals dealing with crop production or livestock have the requisite knowledge and competencies to undertake the task. Based on the Assessment Criteria, SSC in association with empanelled AAs, define the test structure for the given job roles to cover the required skills and competencies. Assessment strategy consists of the following:

1. Multiple Choice Questions : To assess basic knowledge (Objective/Subjective)
2. Viva : To assess awareness on processes (Oral and/or written questioning)
3. Practical : To evaluate skills and identify competencies.(Observation)

Assessments for knowledge and awareness on processes may be conducted through 'real time' internet based evaluation or by conducting the same 'offline' through TABs. Skills and competencies are to be assessed by conducting 'practical' on ground through qualified and ToA certified assessors.

While it is important that an individual has adequate knowledge and skills to perform a specific task, weight age for different aspects for assessment are given as follows:

Multiple Choice Questions: 20%30%, depending on the specific QP

Viva: 20%

Practical: 50% 60% (Involves demonstrations of applications and presentations of procedures/tasks and other components)

Assessment will be carried out by certified assessors through empanelled assessment partners. Based on the results of assessment; ASCI will certify the learners/candidates

2. Testing Environment

Assessments are conducted on laptops, Mobiles and android tablets via both offline and online mode depending on the internet connectivity at assessment location.

In remote locations/villages, assessments get delivered through tablets without the requirement of Internet.

- Multilingual assessments (ASCI is conducting assessments in 13 + languages pan India)
- Rubric driven assessments in Practical/Viva sections and responses recorded accordingly
- All responses, data, records and feedback stored digitally on cloud

- Advanced autoproctoring features – photographs, timestamp, geographictagging, togglescreen/copypaste disabled, etc.
- Android based monitoring system
- End to end process from allocation of a batch to final result upload, there is no manual intervention
- Assessment will normally be fixed for a day after the end date of training / within 7 days of completion of training.
- Assessment will be conducted at the training venue
- Room where assessment is conducted will be set with proper seating arrangements with enough space to curb copying or other unethical activities
- Question bank of theory and practical will be prepared by ASCI /assessment agency and approved ASCI. Only from approved Question Bank assessment agency will prepare the question paper. Theory testing will include multiple choice questions, pictorial question, etc. which will test the trainee on his theoretical knowledge of the subject.
- The theory, practical and viva assessments will be carried out on same day. In case of more number of candidates, number of assessors and venue facilitation be increased and facilitated

Assessment			
Assessment Type	Formative or Summative	Strategies	Examples
Theory	Summative	MCQ/Written exam	Knowledge of facts related to the job role and functions. Understanding of principles and concepts related to the job role and functions
Practical	Summative	Structured tasks/Demonstration	Practical application /Demonstration /Application tasks
Viva	Summative	Questioning and Probing	Mock interviews on usability of job roles/advantages /importance of adherence to procedures. Viva will be used to gauge trainee's confidence and correct knowledge in handling job situation

The question paper preloaded in the computer /Tablet and it will be in the language as requested by the training partner.

3. Assessment Quality Assurance framework

Assessment Framework and Design:

Based on the Assessment Criteria, SSC in association with AAs will define the test structure for the given roles to cover the required skills and competencies. ASCI offer a bouquet of tools for multi dimensional evaluation of candidates covering language, cognitive skills, behavioral traits and domain knowledge.

Theoretical Knowledge Item constructs and types are determined by theoretical understanding of the testing objectives and published research about the item types and constructs that have shown statistical validity towards measuring the construct. Test item types which have been reported to be coachable are not included. Based on these, items are developed by domain experts. They are provided with comprehensive guidelines of testing objectives of each question and other quality measures.

Type – Questions based on Knowledge Required, Casebased practical scenario questions and automated simulation based questions.

Practical Skills The practical assessments are developed taking into consideration two aspects: what practical tasks is the candidate expected to perform on the job and what aspects of the job cannot be judged through theoretical assessments. The candidates shall be asked to perform either an entire task or a set of subtasks depending on the nature of the job role

Type – Standardized rubrics for evaluation against set of tasks in a demo/practical task

Viva Voce Those practical tasks which cannot be performed due to time or resource constraints are evaluated through the viva mode. Practical tasks are backed up with Viva for thorough assessment and complete evaluation

Type – Procedural questions, do's and don'ts, subjective questions to check understanding of practical tasks.

Assessor has to go through orientation program organized by Assessment Agency. The training would give an overview to the assessors on the overall framework of QP evaluation. Assessor shall be given a NOS and PC level overview of each QP as applicable. Overall structure of assessment and objectivity of the marking scheme will be explained to them. The giving of marks will be driven by an objective framework which will maintain standardization of marking scheme.

4. Type of Evidence and Evidence Gathering Protocol:

During the assessment the evidences collected by AAs and ASCI are:

- Geo Tagging to track ongoing assessment
- AA's coordinator emails the list of documents and evidences (photos and videos) to the assessor one day prior to the assessment. List is mentioned below:
 - Signed Attendance sheet
 - Assessor feedback sheet
 - Candidate feedback sheet
 - Assessment checklist for assessor
 - Candidate Aadhar/ID card verification
 - Pictures of classroom, labs to check the availability of adequate equipment's and tool to conduct the training and assessment
 - Pictures and videos of Assessment, training feedback and infrastructure.
- Apart from the Assessor, Technical assistant popularly known as Proctor also ensures the proper documentation and they verify each other's tasks.

- To validate their work on the day of assessment, regular calls and video calls are done.
- Onboarding and training of assessor and proctor is done on timely basis to ensure that quality of the assessment should be maintained.
- Training covers the understanding of QP, NSQF level, NOS and assessment structure

5. **Methods of Validation**

- Morning Check (PreAssessment): Backend team of AA calls and confirms assessor/technical spoc event status. Assessor/Technical spoc are instructed to reach the centre on time by 9:30 AM / as decided with TC and delay should be highlighted to the Training Partner in advance.
- Video Calls: Random video calls are made to the technical spoc/assessor so as to keep check on assessment quality and ensure assessment is carried out in fair and transparent manner
- Aadhar verification of candidates
- Evening Check (Post Assessment): Calls are made to the ground team to ensure event is over by what time and the documentation is done in proper manner or not.
- TP Calling: To keep check on malpractice activity, independent audit team calls to TP on recorded line to take confirmation if there was any malpractice activity observed in assessment on part of AA/SSC team. If calls are not connected, email is send to TP Spoc for taking their confirmation
- Video and Picture Evidence: Backend team collects video and pictures for assessment on real time basis and highlights any issue like, Students sitting idle/trainer allowed for helping out candidates during assessment.
- Surprise Visit: Time to time SSC/AA Audit team can visit the assessment location and do surprise audit for assessment process carried out by ground team.
- Geo Tagging: On day of assessment, each technical spoc is required to login in our internal app which is Geo tagged. Any deviation with centre address needs to be highlighted to assessment team on realtime basis.

Method for assessment documentation, archiving, and Access:

- ASCI has fully automated result generation process in association with multiple AAs
- Theory, Practical and Viva marks forms the basis of the results and encrypted files generated to avoid data manipulation. All responses captured and stored in System with TimeStamps at the end of AAs and SSC. NOSwise and PCwise scores can be generated.
- Maker Checker concept: 1 person prepares results and other audit result which is internally approved by AA at first and then gets vetted at the end of SSC
- All soft copy of documents is received from the onground tech team over mail. The same are downloaded by our internal backend team and saved in Repository. The repository consists of scheme wise folders. These scheme wise folders have job role specific folders. These specific folders have Year wise and Month wise folders where all documents are saved in Batch specific folders. All Hard copies are filed and stored in storeroom.
- **Result Review & Recheck Mechanism –**
- Time stamped assessment logs
- Answer/Endorsement sheets for each candidate
- Attendance Sheet
- Feedback Forms: Assessor feedback form, Candidate feedback form, TP feedback form

- The results for each of the candidate shall be stored and available for review (retained for 5 years/ till conclusion of project or scheme)

Annexure: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations
NCrF	National Credit Framework
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training

Glossary

Term	Description
National Occupational Standards (NOS)	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
Qualification	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
Qualification File	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
Sector	A grouping of professional activities on the basis of their main economic function, product, service or technology.
Long Term Training	Longterm skilling means any vocational training program undertaken for a year and above. https://ncvet.gov.in/sites/default/files/NCVET.pdf