



QUALIFICATION FILE

Jr.Robot Operator and Programmer-Material Handling

☒ 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: 3

Submitted By:

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Section 1: Basic Details

1.	Qualification Name	Jr.Robot Operator and Programmer-Material Handling	
2.	Sector/s	Capital Goods and Manufacturing	
3.	Type of Qualification: ☐ New ☐ Revised ☐ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification: <i>(change to previous, once approved)</i> 2022/CCM/KSDC/05936	Qualification Name of existing/previous version: Jr.Robot Operator and Programmer-Material Handling_V1
4.	a. OEM Name b. Qualification Name <i>(Wherever applicable)</i>	Jr.Robot Operator and Programmer-Material Handling	
5.	National Qualification Register (NQR) Code &Version <i>(Will be issued after NSQC approval)</i>	QG-03-CG-05936-2025-V2-KSDC	6. NCrF/NSQF Level: 3
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other <i>(Wherever applicable specify multiple entry/exits also & provide details in annexure)</i>)	Certificate	
8.	Brief Description of the Qualification	Industrial robot operator - Loading the components in fixtures and operation of various accessories used with robots such as safety devices, grippers, pneumatic devices, air compressor, sensors, controllers, basic trouble shooting and maintenance of robotic cell etc. Industrial robot programmer - Robot programming as per specific handling applications in various industries such as automobile, aerospace, manufacturing etc. Taking care of sequence of operation, ensuring the location of process points on components. Adjusting various parameters to optimize cycle time, troubleshooting errors while creating the program and of robotic cell. Ensuring safety of Robotic cell	
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: Grade 10 pass OR Grade 8 pass with two years of (NTC/ NAC) after 8th OR 9th Grade pass with 1.5 -year relevant experience OR 8th Grade pass with 3 -year relevant experience OR 5th grade pass with 7.5-year relevant experience OR Previous relevant Qualification of NSQF Level 2.5 with 1.5-year relevant experience OR Previous relevant Qualification of NSQF Level 2 with 1.5-year relevant experience	

		b. Age: Minimum Age: 15 Years																						
10.	Credits Assigned to this Qualification, Subject to Assessment <i>(as per National Credit Framework (NCrF))</i>	13	11. Common Cost Norm Category (I/II/III) <i>(wherever applicable):</i>																					
12.	Any Licensing requirements for Undertaking Training on This Qualification <i>(wherever applicable)</i>	NA																						
13.	Training Duration by Modes of Training Delivery <i>(Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)</i>	☐ Offline ☐ Online ☐ Blended <table border="1"> <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>90</td><td>240</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> <i>(Refer Blended Learning Annexure for details)</i>					Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	90	240	60		390	Online					
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																			
Classroom (offline)	90	240	60		390																			
Online																								
14.	Aligned to NCO/ISCO Code/s <i>(if no code is available mention the same)</i>	3139.1400 - Robotic Machine Operator																						
15.	Progression path after attaining the qualification <i>(Please show Professional and Academic progression)</i>	Jr. Robot Operator and Programmer - Material Handling→ Robot Operator and Programmer - Material Handling→ Sr. Robot Operator and Programmer - Material Handling																						
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	No																						
17.	Is similar Qualification(s) available on NQR-if yes, justification for this qualification	☐ Yes ☒ No URLs of similar Qualifications:																						
18.	Is the Job Role Amenable to Persons with Disability	☐ Yes ☒ No If "Yes", specify applicable type of Disability:																						
19.	How Participation of Women will be Encouraged																							
20.	Are Greening/ Environment Sustainability Aspects Covered <i>(Specify the NOS/Module which covers it)</i>	☐ Yes ☐ No																						
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools ☐ Yes ☐ No Colleges ☒ Yes ☐ 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: Nagaraja NM, IAS Managing Director Karnataka Skill Development Corporation. Bangalore-29, Karnataka Email: md.ksdc@karnataka.gov.in Contact No.: 080 2952 2222 Website: https://kaushalkar.karnataka.gov.in/en																						
23.	Final Approval Date by NSQC:	24. Validity Duration: 3 years		25. Next Review Date:																				

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/NSQF 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.	Comply with workshop health and safety guidelines		Non Core	3	1	10	20			30	2	4		4	10	10
2.	Understand Industrial Robots and Robotic cell		Core	3	1	10	20			30	3	6		6	15	15
3.	Basic Programming Of Robot		Core	3	2	15	45			60	3	6		6	15	15
4.	Working with PLC and Advance level Instructions		Core	3	2	15	45			60	4	8		6	18	18
5.	Material Handling Application (Gripper) with Robot		Core	3	2	10	50			60	2	4		6	12	12
6.	Assignments (Based on case studies and Industrial application)		Core	3	2	15	45			60	2	4		4	10	10
7.	Mini Project (Based on Industrial application)		Core	3	2			60		60	2	6		4	12	12
8.	Employability Skills		Non Core	3	1	15	15			30	2	2		4	8	8

S. No	NOS/Module Name	NOS/Module Code & Version <i>(if applicable)</i>	Core/Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) <i>(if applicable)</i>
Duration (in Hours) / Total Marks					13	90	240	60	0	390	20	40	0	40	100	100

Elective NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NSQF 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.																
2.																
Duration (in Hours) / Total Marks																

Optional NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NSQF 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.																
2.																
Duration (in Hours) / Total Marks																

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) <i>(as per NCVET guidelines)</i>	Graduate in Engineering with 2-year experience in relevant field and domain certification.
2.	Master Trainer's Qualification and experience in the relevant sector (in years) <i>(as per NCVET guidelines)</i>	Graduate in Engineering with 4-year experience in relevant field and domain certification.
3.	Tools and Equipment Required for Training	☒ Yes ☐ No <i>(If "Yes", details to be provided in Annexure)</i>
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Graduate in Engineering with 4-year experience in relevant field.
2.	Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Graduate in Engineering with 2-year experience in relevant field.
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Graduate in Engineering with 6-year experience in relevant field.
4.	Assessment Mode <i>(Specify the assessment mode)</i>	Offline
5.	Tools and Equipment Required for Assessment	☒ Same as for training ☐ Yes ☐ No <i>(details to be provided in Annexure-if it is different for Assessment)</i>

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): Yes
3.	Government /Industry initiatives/ requirement (Yes/No): Yes
4.	Number of Industry validation provided:
5.	Estimated nos. of persons to be trained and employed:
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: NA If "No", why:

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 <i>(Mandatory)</i>	Annexure 1
2.	Annexure: List of tools and equipment relevant for qualification <i>(Mandatory, except in case of online course)</i>	Annexure 2
3.	Annexure: Detailed Assessment Criteria <i>(Mandatory)</i>	Annexure 6
4.	Annexure: Assessment Strategy <i>(Mandatory)</i>	Annexure 7
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>	Annexure 8
8.	Supporting Document: Model Curriculum <i>(Mandatory – Public view)</i>	Model Curriculum
9.	Supporting Document: Career Progression <i>(Mandatory - Public view)</i>	
10.	Supporting Document: Occupational Map <i>(Mandatory)</i>	
11.	Supporting Document: Assessment SOP <i>(Mandatory)</i>	
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
Professional Theoretical Knowledge/Process	- Material Handling Robot Programmer is expected to understand robotics cell it equipment. Its safety circuit, able to assemble the gripper on robot, follow the process in operating the robot, Programming the robotic cell. Use robot and Handling commands. - Understand the problem in robotic cell, Handling application Robot Speed parameters etc.	Material Handling Robot programmer should understand the process of Industrial robotic turnkey automated cells and He gains the knowledge about how to jog the robots, teach the robots, program the industrial robots and Cell elements including Grippers, Pneumatics and all safety interlocks required for the automated cells and making robotic cell ready for production.	NSQF Level 3
Professional and Technical Skills/ Expertise/ Professional Knowledge	- Material Handling Robot Programmer is expected have basic knowledge of how material handling in industry. - Should have knowledge about basic automation, product and process. - Basic knowledge of handling application tools. - Basic knowledge of robot programming and can understand the process flow. Should Have basic knowledge of PLC. - Should know about the safety standards followed in manufacturing	- Material Handling Robot programmer gains the knowledge about basic knowledge of how material handling is carried out in the Manufacturing and packaging industries, and candidate will get to know application of material handling robots with PLC in the same industries. - Turnkey cell elements such as Robotic grippers, Pneumatic cylinders, valves, different Sensors and industrial standards.	NSQF Level 3
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	- Working as a member of a team/ within a team. Display Personal Motivation. Positive Attitude & Passion for Work - Good skills in written and oral communication with some clarity, basic knowledge of Language to support such communication. - Intermediate literacy and Numeracy skills - Skills for workshop calculations and basic of arithmetic and algebraic principles. - Good logical and analytical reasoning skills.	- Material Handling Robot programmer will gain the skill to program the robot in an optimized way. - Understand the sequence of operations carried out for a particular application. - Optimise the Robot programs and able to read, understands and create the process and sequence of operation by robot.	NSQF Level 3
Broad Learning Outcomes/Core Skill	- Robot Programmer is expected to identify the job to be processed, - Understand the robotic cell, Robot components, application-based tool (i.e. Grippers). - Able to Mount gripper tool on robot. - Interface handling tool with PLC. - Should have knowledge of basic programming	- Robot programmer will expertise in Material Handling application for robots and willing the select best suitable cell elements in a shorter time and If requires he can modify the program and Logic part on his own and can use best commands in order to avoid the complexity of the programming. - He / she can troubleshoot any kind the errors occur in	NSQF Level 3

	commands and high-level instructions. • Should have knowledge of handling application-based commands. • Should be able to trouble shoot the problems in robotic cell	the cell.	
Responsibility	• The Job Holder is Responsible for Safety standards to be implementation in robotic cell. • Understanding the work job to be processed. • Confirmation of right tool and its mounting on robot. • Programming the Robot with basic and high-level instructions and Use the application based commands. • Periodic inspection and maintenance.	• Material Handling Robot programmer will be responsible for Creating robot programming for applications such as Pick and place, Machine tending, palletizing etc. • He / she will be responsible for Selecting the right tool, PLC programs, Pneumatics and Sensors for the particular application. • Responsible to meet the project timeline, Robot inspection, maintenance and service.	NSQF Level 3

Annexure 2: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size:

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	Robot GP12 or equivalent and its accessories		1 No.
2	Robot Controller for Handling Robot		1 No.
3	Programming Pendant for Handling robot		1 No.
4	Standard Handling cell with safety fence, fixture, HMI		1 No.
5	Pick and Place table		1 No.
6	Piping/Hose pipe up to robot gripper		1 No.
7	Air Compressor	7.5 Hp	1 No.
8	Hand Gloves		5 Nos.
9	Safety Shoes		5 Nos.
10	Helmet		5 Nos.

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Laptop
2. Whiteboard and Markers
3. Projector
4. Screen
5. Stationary

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)

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

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

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.
- 2.

Content availability for previous versions of qualifications:

☐ Participant Handbook ☐ Facilitator Guide ☐ Digital Content ☐ Qualification Handbook ☐ Any Other:

Languages in which Content is available:

Annexure 5: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

Refer NCVET “Guidelines for Blended Learning for Vocational Education, Training & Skilling” available on:

<https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skilling.pdf>

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
1	☐ Theory/ Lectures - Imparting theoretical and conceptual knowledge		
2	☐ Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners		
3	☐ Showing Practical Demonstrations to the learners		
4	☐ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		
5	☐ Tutorials/ Assignments/ Drill/ Practice		
6	☐ Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	☐ On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		

Annexure 6: 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
Comply with workshop health and safety guidelines	- PC 1. Comply with safety, health, security and environment related regulations/ guidelines as per organizational/ manufacturer's policy - PC 2. Carry out maintenance operations as per the manufacturers and workshop related health and safety guidelines/ standard operating procedures. - PC 3. Follow safety regulations and procedures regarding service workshop hazards and risks. - PC 4. Use appropriate protective clothing/ equipment for specific tasks and work conditions as per service manual. - PC 5. Record and report details related to operations, incidents, or accidents, as applicable.				
	Total Marks	2	4		4
Understand Industrial Robots and Robotic cell	- PC 1. Understanding the industrial Robots and robot cell. Types of robots, robot components, robot specifications, robot work envelop, operation of robotic cell accessories such as controller, pneumatic system, grippers, fixtures, electric block diagram for robotic cell, safety sensors etc. - PC 2. Powering ON and Power OFF of Robot cell, Checking complete cell health. - PC 3. Robot applications in various industries. Understanding specific robot application requirement, selection of robot, understanding process flow, importance of productivity, optimization of cycle time. - PC 4. Understanding Coordinate system in robotics, different coordinate systems in robots, defining X, Y, Z co-ordinate system, hands on feel of robot. - PC 5. End effectors and their functions. - PC 6. Safely mounting grippers on the robot flange. - PC 7. Introduction to Teach pendent and Methods to incorporate the programming.				
	Total Marks	3	6		6
Basic Programming Of Robot	- PC 1. Modes of Jogging in Robots. Tool / work object definition and their calibration. - PC 2. Basic motion types (move commands) used in programming (PTP, Linear, Circular, Spline). - PC 3. Via Point and Process Points. - PC 4. Understanding different motion parameters used in program point recording. - PC 5. Creating basic program using points on teach table or fixture for all move commands.				
	Total Marks	3	6		6
Working with PLC and Advance level Instructions	- PC 1. Understanding PLC and robot communication and HMI. - PC 2. Understanding the conveyor system and its communication with PLC. - PC 3. Programming with advance level instructions. - PC 4. Methods to create fencing and safety equipment.				
	Total Marks	4	8		6
Material Handling Application (Gripper) with Robot	- PC 1. Factors to be considered for selecting and designing a Gripper and its accessories. - PC 2. Including and interfacing gripper with robot and PLC, keys on Teach pendent. - PC 3. Advance robot Program for various applications application				

	Total Marks	2	4		6
Assignments (Based on case studies and Industrial application)	PC 1. Based on case studies and Industrial application				
	Total Marks	2	4		4
Mini Project (Based on Industrial application)	- PC 1. Fully automated Robotic System. - PC 2. Stacking and de-stacking parts. - PC 3. Machine tending application.				
	Total Marks	2	6		4
Employability Skills	- PC1 Understanding the Significance of Employability skills - PC2 Identification the Constitutional values - PC3 Explaining Becoming a professional in the 21st century - PC4 Speak with Others in Basic English skills - PC5 Significance of Career development and goal setting - PC6 Etiquette of Communication skills - PC7 Use Various Financial and legal literacy - PC8 Awareness to Essential Digital Skills				
	Total Marks	2	2		4
	Grand Total	20	40		40

Annexure7: 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.

Mention the detailed assessment strategy in the provided template.

<1. Assessment System Overview:

- Batches assigned to the assessment agencies for conducting the assessment on SIP or email
- Assessment agencies send the assessment confirmation to VTP/TC looping SSC
- Assessment agency deploys the ToA certified Assessor for executing the assessment
- SSC monitors the assessment process & records

2. Testing Environment:

- Check the Assessment location, date and time
- If the batch size is more than 30, then there should be 2 Assessors.
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.

3. Assessment Quality Assurance levels/Framework:

- Question bank is created by the Subject Matter Experts (SME) are verified by the other SME
- Questions are mapped to the specified assessment criteria
- Assessor must be ToA certified & trainer must be ToT Certified

4. Types of evidence or evidence-gathering protocol:

- Time-stamped & geotagged reporting of the assessor from assessment location
- Centre photographs with signboards and scheme specific branding

5. Method of verification or validation:

- Surprise visit to the assessment location

6. Method for assessment documentation, archiving, and access

- Hard copies of the documents are stored

On the Job:

1. The candidate must score 60% in each module to successfully complete the OJT.
2. Tools of Assessment that will be used for assessing whether the candidate is having desired skills and etiquette of dealing with customers, understanding needs & requirements, assessing the customer and perform Soft Skills effectively:
 - Videos of Trainees during OJT
 -
3. Assessment of each Module will ensure that the candidate is able to:
 - Effective engagement with the customers
 - Understand the working of various tools and equipment
 ->

Annexure 8: 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	Long-term skilling means any vocational training program undertaken for a year and above. https://ncvet.gov.in/sites/default/files/NCVET.pdf