

NSQF QUALIFICATION FILE

Approved in 23rd NSQC Meeting-NSDA-22nd August 2019

Rationalized in 24th NSQC Meeting – NCVET – Dated 17.11.2022

**NCVET Code
2022/AUT/IASC/06502**

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

INSTRUMENTATION AUTOMATION SURVEILLANCE & COMMUNICATION
SECTOR SKILL COUNCIL B-12, Sector 1, NOIDA – 201301 (U.P.)

Name and address of submitting body:

INSTRUMENTATION AUTOMATION SURVEILLANCE & COMMUNICATION
SECTOR SKILL COUNCIL B-12, Sector 1, NOIDA – 201301 (U.P.)

Name and contact details of individual dealing with the submission

Name: Brajesh Kumar Poddar

Position in the Organization: CEO

Address if different from above:

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List of documents submitted in support of the Qualifications File

1. Summary
2. Criteria for Assessment of Trainees
3. Occupation Maps
4. List of Companies Validation
5. QPs

Model Curriculum to be added which will include the following:

- Indicative list of tools/equipment to conduct the training
- Trainer's Prerequisite
- Lesson Plan
- Distribution of training duration into theory/practical/OJT component

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1	Qualification Title	Industrial Automation Technician
2	Qualification Code, if any	IAS/Q5601
3	NCO code and occupation	NCO-2015/7412.0101
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	Short-Term Training Up-skilling / Re-skilling of existing resource
5	Body/bodies which will award the qualification	IASC SSC
6	Body which will accredit providers to offer courses leading to the qualification	IASC SSC
7	Whether accreditation/affiliation norms are already in place or not, if applicable (if yes, attach a copy)	Yes
8	Occupation(s) to which the qualification gives access	Installation and Commissioning (Instrumentation and Automation)
9	Job description of the occupation	The Industrial Automation Technician is responsible for installation of control panels, integrating it with customers system and assisting the engineer in commissioning and powering up at customer site / Industry location.
10	Licensing requirements	N/A
11	Statutory and Regulatory requirement of the relevant sector	N/A
12	Level of the qualification in the NSQF	4
13	Anticipated volume of training/learning required to complete the qualification	390 Hrs.
14	Indicative list of training tools required to deliver this qualification	• Laptop, white board, marker, projector • Basic AC & DC Electrical & Electronics lab. • Automation Lab which includes Ethernet LAN, PLC, SCADA, HMI, Field Devices, Sensors, Actuator, Control Valves, VFD, Cables – Wiring, Power, Coaxial, LAN, Fiber, Tools, Meters, Software • Mechatronics Lab which included Pneumatic devices, switches, actuators, cylinders, control valves, compressor, piping, hydraulic pump, ports, piping, control elements and accessories.

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		• Electrical safety accessories, Electrical switchgear, Conductivity meter, Earth pit and its components • Tool sets, Meter sets, Wires, Cables, Terminals, Sockets, Panels, Cable tray, Ferrules, Cable Glands, Supporting infrastructure • Meter sets, Wires, Cables, Terminals, Sockets, Supporting infrastructure • Fire Drill accessories, First Aid kit, Protective Gear, ESD accessories • AUTOCAD Software, MS Office / Open Office software, email, Printer, MS Project/Open Project • SCADA, PLC, Communication, Networking software
15	Entry requirements and/or recommendations and minimum age	10th + 1 year NTC or 1 year NAC in relevant field OR 10th + 1 year experience in relevant field OR Completed 1st year or pursuing 2nd year of 3 years Engineering Diploma (after 10th) in relevant field OR Previous relevant Qualification of NSQF Level 3 + 1 year experience in relevant field Minimum job entry age: 18 Years
16	Progression from the qualification (Please show Professional and academic progression)	Level 5 (Sr. Technician Automation)
17	Arrangements for the Recognition of Prior learning (RPL)	RPL will be based on the same approved Qualification Pack and Assessment Criteria mentioned in the Qualification Pack by Instrumentation Automation Surveillance & Communication Sector Skill Council
18	International comparability where known (research evidence to be provided)	Checked
19	Date of planned review of the qualification.	01/05/2023
20	Formal structure of the qualification Mandatory components	

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	Title of component and identification code/NOSs/Learning outcomes	Estimated size (Learning hours)	Level
	IAS/N5605 Install and Commission Control Panel	150	4
	IAS/N9001 Work effectively with teams	30	4
	IAS/N9002 Health and safety in workplace	30	4
	DGT/VSQ/N0102 Employability Skills	60	4
	OJT	120	4
	Total	390 Hrs.	

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SECTION 1

ASSESSMENT

21	Body/Bodies which will carry out assessment: IASC SSC will conduct assessment through its empaneled/aligned assessment agency and through certified assessors.
22	How will RPL assessment be managed and who will carry it out? The RPL assessment will be carried out through screening, identifying skills gaps through NOS level assessment issuing NOS level scores sheets providing ridge training to cover competency gaps and conduct final assessment of the 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. The emphasis is on practical demonstration of skills and knowledge based on the performance criteria. The assessment papers are developed by Subject Matter Experts (SME) available with the Assessment Agency as per the performance and assessment criteria mentioned in the Qualification Pack. The assessment papers are also checked for the various outcome-based parameters such as quality, time taken, precision, tools & equipment requirement etc. The assessment results are backed by evidence collected by assessors. 1. The assessor needs to collect a copy of the attendance for the training done under the scheme. The attendance sheets are signed and stamped by the In-charge / Head of the Training Centre. 2. The assessor needs to verify the authenticity of the candidates by checking the photo ID card issued by the institute as well as any one Photo ID card issued by the Central/Government. The same needs to be mentioned in the attendance sheet. In case of suspicion, the assessor should authenticate and cross verify trainee's credentials in the enrolment form. 3. The assessor needs to punch the trainee's roll number on all the test pieces. 4. The assessor can take a photograph of all the students along with the assessor standing in the middle and with the center name/banner at the back as evidence. 5. The assessor also needs to carry a photo ID card. The assessment agencies are instructed to hire assessors with integrity, reliability and fairness. Each assessor shall sign a document with its assessment agency by which they commit themselves to comply with the rules of confidentiality and conflict of interest, independence from commercial and other interests that would compromise impartiality of the assessments.

ASSESSMENT EVIDENCE

24. Assessment evidence

Title of Component: Industrial Automation Technician

Please refer to document 'Model Curriculum_ Industrial Automation Technician _V3.0.pdf' which provides the outcomes, assessment criteria, methods, and tools for each component.

Outcomes to be assessed/NOSs to be assessed	Assessment criteria for the outcome
IAS/N5605: Install and Commission Control Panel	PC1. identify accurately the work requirements and delivery time schedule from authorized sources
	PC2. carry out micro-level planning for installation and commissioning activities
	PC3. clarify doubts by referring to design, drawing, job instructions and work manuals before going to the site
	PC4. identify tools and tackles required at the site
	PC5. ensure availability of control panel and tools required for installation at the site before visiting the site
	PC6. ensure adequacy of working space, access and maintenance facilities at the site and ensure panel fixing is proper
	PC7. inspect and determine any transit damage of goods and equipment
	PC8. prepare transit damage report accurately in the presence of customer representative and proceed as per organization SOP
	PC9. ensure required tools are available to carry out the installation
	PC10. prepare a physical verification of the equipment and accessories that are available at site as per the check list
	PC11. ensure that all the devices in the panel are dust free
	PC12. check the internal panel wiring and ensure that it is in accordance with the design drawing
	PC13. check insulation of internal panel wiring and devices within the panel
	PC14. check if batteries and chargers have been assembled in accordance with manufactures recommended procedures
	PC15. verify the electrical conductor's sizes and capacity for installation according to specifications
	PC16. ensure that panel is positioned as prescribed, following safety norms

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	PC17. inspect the connection to socket outlets, switches and protective conductors
	PC18. verify and / or perform settings of various components/sub-systems of the control panels supplied as per design and customer requirements
	PC19. ensure that fuses, switches and other protective devices are labeled correctly
	PC20. prepare ground and earth the panels
	PC21. check for various voltage levels on charged panel, danger and warning notices, if necessary
	PC22. follow company approved standard procedures in erection and commissioning process
	PC23. use the wiring diagram to validate the accuracy of the installation to meet the specifications
	PC24. ensure that applicable local electrical codes and standards are used
	PC25. ensure that no installation damage has occurred, if there is damage to the panel while installing, prepare report and proceed as per organization SOP to rectify the damage
	PC26. determine the process for testing the control panel and identify requirements for connections to the customer system, by referring to the organization SOP for panel testing and instruction therein
	PC27. ensure cable ends, glands and terminators are properly processed
	PC28. ensure end to end continuity of all the cables
	PC29. ensure control panel is grounded properly
	PC30. ensure continuity of all the fuses
	PC31. test MCB functioning to ensure it is according to panel design
	PC32. check the electrical load of the control panel and verify that it is within the specification
	PC33. check control systems interlocks, record any faults and create rectification list
	PC34. check each digital control point by comparing the command at the control panel and status of the devices that it controls
	PC35. perform continuity check, insulation resistance, functions of all devices after completion of installation of all devices
	PC36. check the functional testing information to be carried out in accompaniment with client and record and document the same
	PC37. prepare work site test report and document for future use

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	PC38. interact with commissioning engineer in order to understand customer system integration requirements and work schedule
	PC39. check the design/ drawing of the customer system to extract relevant information for integration
	PC40. check the location of the customer system and plan for cable routing and related work, ensuring safety and efficiency
	PC41. check with customers engineer or authorized person for planned integration work and ensure availability of the system
	PC42. check shutdown requirement for the integration work then coordinate with the customer representative and ensure availability
	PC43. perform the required installation and or connection to the customer system, preferably in the presence of a customer representative
	PC44. ensure that cable gland mounting, cable end terminations and labelling are properly done
	PC45. check the cleanliness of customer system and ensure that the work area is free from any packing material or debris etc.
	PC46. prepare a report of integration work performed in a format specified by the commissioning engineer
	PC47. rectify any identified errors and retest to verify correct operation, if the fault persists, report to the engineer and seek guidance
	PC48. check that the required tools are available to carry out the commissioning process
	PC49. prepare the user acceptance test performance sheet in the format agreed upon by the engineer and customer
	PC50. apply the control inputs from the panel or from the customer system and record resultant readings and control outputs in the specified observation sheet
	PC51. achieve set productivity targets consistently
	PC52. maintain record of damaged components as received, damaged during installation and damaged during testing
	PC53. ensure compliance with health and safety guidelines and rules
IAS/N9001: Work effectively with teams	PC1. know and understand the team objectives and goals
	PC2. know team members by name. Greet them appropriately and respond to their greetings.
	PC3. know the roles and responsibilities of team members. Ensure others know about you and your role in the team
	PC4. learn about the culture and preferences of team members especially if they belong to other organizations or nationalities

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	PC5. follow organizations policies and procedures for working with team members within and outside the organization especially relating to privacy, confidentiality and security.
	PC6. create an environment of trust and mutual respect
	PC7. use appropriate mode of communication verbal, written, mail, phone or text and clearly articulate your message to ensure that the recipient understands the message
	PC8. listen to team members and try to understand what they are wanting to say. Seek or provide clarifications if you see any gap in understanding
	PC9. communicate professionally and follow organization protocols. Do not overload the team members with unnecessary and unsolicited information
	PC10. share important information with the team timely.
	PC11. respond to communications promptly.
	PC12. perform own role and produce output in time for other team members to consume
	PC13. receive inputs from others and work upon it per role requirement
	PC14. make adjustments within the permissible rules so that work flows smoothly
	PC15. help team members to perform their role effectively and provide any clarifications and support they need
	PC16. share tools and common resources fairly, taking cognizance of others needs and schedules
	PC17. resolve any contentious issues amicably, involving the team lead or the supervisor if needed
	PC18. let team members know in good time if you cannot carry out your commitments, explaining the reasons and alternate solutions, if any. Let the team lead know about this.
	PC19. think positively and make constructive suggestions to meet the goals
	PC20. accept and give suggestions with open mind
	PC21. take initiatives and volunteer to contribute
	PC22. help team members with facts and figures to arrive at workable decisions
	PC23. accept decisions professionally and support these, even if these do not match your suggestions and personal views
	PC24. act in the interest of the team and the organization to ensure that things do not fall through the gap and team goals are achieved.

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	PC25. take initiative to correct the situation if something seems to be going wrong
	PC26. seek help or escalate if the situation demands
	PC27. follow organizations and statutory guidelines about making references or comments to social customs or preferences
	PC28. refrain from making any comments to hurt sentiments
	PC29. accommodate team members preferences to the extent feasible. If these come in the way of fulfilling team goals, discuss with the supervisor/ team leader
	PC30. seek information and clarifications from others if you do not understand any customs
IAS/N9002: Health and safety in workplace	PC1. comply with general safety procedures followed in the company
	PC2. Follow standard safety procedures while handling an equipment, hazardous material or tool
	PC3. remove finger rings or any other metal objects which may interfere with the work before working on the unit
	PC4. use safety materials such as goggles, gloves, ear plugs, caps, ESD pins, covers, shoes, etc
	PC5. escalate about any hazardous materials or things found in the premises
	PC6. report about any breach of safety procedure in the company
	PC7. ensure zero accidents at work
	PC8. avoid damage of components due to negligence in ESD procedures
	PC9. participate regularly in fire drills or other safety related workshops organized by the company
	PC10. ensure no loss for company due to safety negligence
	PC11. maintain appropriate posture, especially in long hours of sitting or standing position and in handling heavy materials
	PC12. participate in company organized health sessions such as yoga, physiotherapy or games
	PC13. handle heavy and hazardous materials with care and using appropriate tools and handling equipment such as trolleys, jacks and ladders
Employability Skills	PC1. identify employability skills required for jobs in various industries
	PC2. identify and explore learning and employability portals
	PC3. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and

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	personal values and ethics such as honesty, integrity, caring and respecting others, etc.
	PC4. follow environmentally sustainable practices
	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, problem-solving,
	creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life
	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, e-mails etc. in English
	PC10. understand the difference between job and career
	PC11. prepare a career development plan with short- and long-term goals, based on aptitude
	PC12. follow verbal and non-verbal communication etiquette and active listening techniques in various settings
	PC13. work collaboratively with others in a team
	PC14. communicate and behave appropriately with all genders and PwD
	PC15. escalate any issues related to sexual harassment at workplace according to POSH Act
	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
	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

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	PC22. use basic features of word processor, spreadsheets, and presentations
	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
	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
	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
	PC33. identify apprenticeship opportunities and register for it as per guidelines and requirements

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Outcomes to be assessed/NOSs to be assessed	Assessment criteria for the outcome
Means of assessment 1	1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. IASC SSC will also lay down proportion of marks for Theory and Skills Practical for each PC. 2. The assessment for the theory part will be based on knowledge bank of questions created by the IASC SSC. 3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below.) 4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on these criteria.
Means of assessment 2 Add boxes as required.	
Pass/Fail 1. To pass the Qualification Pack, every trainee should score a minimum of 70% in every NOS. 2. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack.	

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Title/Name of qualification/component: Industrial Automation Technician Level: 4			
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Process	The Industrial Automation Technician is responsible for installation of control panels, integrating it with customers system and assisting the engineer in commissioning and powering up at customer site.	Theoretical and practical skills of the individual is applied to work in predictable and familiar context. The evolving nature of the business and technology environment demands dealing with new scenarios and adapting solutions in the context of the target industry quickly which makes the process adaptive and non-routine.	4
Professional knowledge	Knowledge facts, concepts and principles that need to be known and/or understood in order to accomplish a task or to solve a problem.	The individual applies knowledge learnt through formal education to accomplish the defined objectives and continuously updates his/her knowledge and acquires new relevant information through multiple channels and assimilates these.	4
Professional skill	Decision Making, Plan and Organize, Customer Centricity, Problem Solving, Analytical Thinking, Critical Thinking	The individual is called upon to understand the business context, the technology environment, the defined vision/mission/goals of the company and implement the defined solutions. Industrial Automation Technician required extensive interaction with all	4

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		stakeholders – including customer, vendors and own organization. He/she needs to do out-of-the-box thinking, do critical analysis and apply information.	
Core skill	Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. These skills are typically needed in any work environment.	Deep skills in understanding concepts, problems and documents of varied nature, assimilating and communicating globally across the organization boundaries to achieve desired results. Collaboration is a key need.	4
Responsibility	Completely responsible for the output. Effective team work and safety of self and colleagues. Responsible for self-learning goals	The individual understands the responsibilities of the role and fully owns it. He/she continuously learns on the job and, taking guidance where needed and guiding the team and coaching to achieve the outcomes.	4

SECTION 3 EVIDENCE OF NEED

26	What evidence is there that the qualification is needed? What is the estimated uptake of this qualification and what is the basis of this estimate?		
	Basis	In case of SSC	In case of other Awarding Bodies (Institutes under Central Ministries and states departments)
	Need of the qualification	The IASC SSC carried out baseline survey with industry stakeholders and identify the skill requirement across the sector. IASC Sector is growing at a very significant rate and to cater the demand of the industry we need to skill our youth. As per the report its evident that the qualification is needed. The IASC can produce the data from primary or authorized secondary sources as well.	
	Industry Relevance	The IASC SSC has undertaken validation of the job roles with actual end-user industry where such employment are going to be generated and absorbed instead of generic validation of industry. The IASC SSC has submitted the endorsements from users / intended users of the qualification clearly supporting or otherwise the need for trained people against specific job role.	
	Usage of the qualification	The IASC SSC, based on the base line survey and demand from industry only the Qualification is created. It has found that there are huge requirement of human resource and trainings are to be provided to youth to make them employment.	
	Estimated uptake	The IASC SSC prepared the estimated uptake analysis of the	The Submitting Body

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		qualification. It has strong industry connect and plans to fulfil the need of skilled resource to be deployed in the industry. The training entity has also required such qualification to train the new inductees to make them employable similarly engineering / diploma institutions will undertake training through this qualification to generate pool of professional.	
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27	Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidence Endorsement from line ministry that DHI (MHI) is received.
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 NSDC list of Approved and Under-Development QPs and NQR were checked prior to commencement of the work.
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 • Feedback from the Industry and Industry Association. • Recommendation and suggestions from the Industry Player and Industry Association.

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> 1. Endorsed and accepted by the industry players 2. Formal recognition from the Industry Players 3. Horizontal & Vertical mobility options are available <table><tr><th>NSQF Level</th><th>Path of progress</th></tr><tr><td>NSQF Level 6</td><td>Sr. Engineer Building Automation Specialist</td></tr><tr><td>NSQF Level 5</td><td>Industrial Automation Specialist</td></tr><tr><td>NSQF Level 4</td><td>Industrial Automation Technician</td></tr></table>	NSQF Level	Path of progress	NSQF Level 6	Sr. Engineer Building Automation Specialist	NSQF Level 5	Industrial Automation Specialist	NSQF Level 4	Industrial Automation Technician
NSQF Level	Path of progress								
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