

NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 08 March 2016

NSDA Reference

To be added by NSDA

Revised by NSDA 25 May, 2015

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

Aerospace & Aviation Sector Skill Council (AASSC)

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List of documents submitted in support of the Qualifications File

1. Career Map/ Progression of **Aircraft Powerplant Technician**–
Refer Career Paths – 8 MRO Job Roles : Annexure 1
<C:\Users\Chetan-AASSC\Desktop\8 MRO Job Roles>
2. QP - **AAS/Q2001**– [Annexure 2](#)
3. Skill Reports within the Aviation sector – [Annexure 3](#)

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SUMMARY

Qualification Title	Aircraft Powerplant Technician
Qualification Code	AAS/Q2001
Nco code and occupation	NCO-2015/7232.06
Industry as per NIC	Aerospace & Aviation
Nature and purpose of the qualification	Nature of the qualification - a Qualification Pack (QP) The main purpose of the qualification - Aircraft Powerplant Technician for assembly of engine modules, complete engine, engine accessories & LRU's.
Body/bodies which will award the qualification	AASSC (Aerospace and Aviation Sector Skill Council)
Body which will accredit providers to offer courses leading to the qualification	AASSC (Aerospace and Aviation Sector Skill Council)
Body/bodies which will carry out assessment of learners	From the list of empanelled assessment bodies reviewed over a period of time. <ol style="list-style-type: none">1. Skills mantra edutech consulting India Pvt.Ltd2. India Skills Pvt Ltd3. Cocubes technologies Private Limited4. Aspring Minds Assessments Pt.Ltd5. Mettl India Pvt Ltd/Induslynk Training Services Pvt Ltd6. Formac Software Services Pvt. Ltd.
Occupation(s) to which the qualification gives access	Aircraft Powerplant Technician - Base Maintenance
Licensing requirements	-
Level of the qualification in the NSQF	4
Anticipated volume of training/learning required to complete the qualification	384 hours
Entry requirements and/or recommendations	Minimum Educational Qualifications: Class XII (Science stream) Minimum Job Entry Age- 18 years
Progression from the qualification	Shift IN Charge – Base Maintenance
Planned arrangements for the Recognition of Prior learning (RPL)	RPL arrangements and policies are under development

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International comparability where known	International comparability and country specific studies will be done at a later stage
Date of planned review of the qualification.	March 2020

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Formal structure of the qualification			
Title of component and identification code.	Mandatory/ Optional	Estimated size (learning hours)	Level
1. AAS/N0502 Follow safety and security procedures	Mandatory	48	3
2. AAS/N2001 Understanding the process of aero engine assembly	Mandatory	90	4
3. AAS/N2002 Aero-engine assembly/disassembly	Mandatory	91	4
4. AAS/N2003 Perform aero-engine module disassembly/assembly	Mandatory	91	4
5. AAS/N2004 Prevention of FOD during engine assembly/disassembly	Mandatory	32	3
6. ASC/N0021 Maintain 5S at the work premises	Mandatory	32	3
Add boxes as required for alignment.			

Please attach any document giving further detail about the structure of the qualification – eg a Curriculum Document or a Qualification Pack.

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

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SECTION 1 ASSESSMENT

Body/Bodies which will carry out assessment:

If there will be more than one assessment body for this qualification, give details.

- From the list of empanelled assessment bodies reviewed over a period of time.

How will RPL assessment be managed and who will carry it out?

- AASSC recognises that there may be candidates who have prior learning experience in the Aviation and Aerospace sector and are desirous of being certified. Such candidates can apply to AASSC for testing and certification of their skills, and they will be allotted a training provider/TC for being tested. Documentation for such candidates will be done by the Training provider / TC. Certificates of successful candidates will be despatched to the TP/TC for distribution to them.

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.

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Assessment will be based on the concept of Independent Assessors empanelled with Assessment Agencies, identified, selected, trained and certified on Assessment techniques. The assessors would be aligned to assess as per the laid down criteria.

Assessment Agency would conduct assessment only at the training centres of the Training Partner or designated testing centers authorised by AASSC.

Ideally, the assessment will be a continuous process comprising of two assessments:

1. A Mid- term assessment
2. Final / Term assessment.

Each National Occupational Standard (NOS) in the respective QPs will be assigned weightage. Therein each Performance Criteria in the NOS will be assigned marks for theory and / or practical based on relative importance and criticality of function.

This will facilitate preparation of question bank / paper sets for each of the QPs. Each of these papers sets / question bank so created by the Assessment Agency will be validated by the industry subject matter experts through FICSI, especially with regard to the practical test and the defined tolerances, finish, accuracy etc.

The following tools are proposed to be used for final assessment:

i. **Written Test:** This will comprise of (i) True / False Statements (ii) Multiple Choice Questions (iii) Matching Type Questions. Online system for this will be preferred.

ii. **Practical Test:** This will comprise a test job to be prepared as per project briefing following appropriate working steps, using necessary tools, equipment and instruments. Through observation it will be possible to ascertain candidate's aptitude, attention to details, quality consciousness etc.

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The end product will be measured against the pre-decided MCQ filled by the Assessor to gauge the level of his skill achievements.

iii. **Structured Interview:** This tool will be used to assess the conceptual understanding and the behavioral aspects as regards the job role and the specific task at hand.

- The emphasis is on 'learning-by-doing' and practical demonstration of skills and knowledge based on the performance criteria.
- The assessment papers are developed by Subject Matter Experts (SME) available with the Assessment Agency as per the performance and assessment criteria mentioned in the Qualification Pack. The assessments papers are also checked for the various outcome based parameters such as quality, time taken, precision, tools & equipment requirement etc. The assessment sets will be then reviewed by AASSC official for consistency.
- The assessments are designed so as to assess maximum parts during the practical hands on work. The technical limitations at the training centres are taken care in theory and viva.
- The assessment agencies are instructed to hire assessors with integrity, reliability and fairness. Each assessor shall sign a document with its assessment agency by which they commit themselves to comply with the rules of confidentiality and conflict of interest, independence from commercial and other interests that would compromise impartiality of the assessments. The assessment agencies are instructed to ideally have assessor with minimum 15 years industry experience as an ITI graduate / minimum 10 years' industry experience as diploma engineer and minimum 5 years' industry experience as graduate engineer.
- The assessors selected by Assessment Agencies are scrutinized and made to undergo training and introduction to AASSC Assessment Framework, competency based assessments, assessors guide etc.
- The assessors are provided with assessors guide developed by the Subject Matter Expert of the assessment agency as per the assessment framework. The assessment guides are developed to ensure the maximum possible consistency in the assessment by different assessors and elaborate on the following
 1. Qualification Pack Structure
 2. Guidance for the assessor to conduct theory, practical and viva assessments
 3. Guidance for trainees to be given by assessor before the start of the assessments.
 4. Guidance on assessments process, practical brief with steps of operations practical observation checklist and mark sheet
 5. Viva guidance for uniformity and consistency across the batch.
- The assessment by assessment agency will be completely based on the assessment criteria as mentioned in the Qualification Pack. Each NOS in the Qualification Pack (QP) will be assigned a relative weightage for assessment based on the criticality of the NOS. Therein each Performance Criteria in the NOS will be assigned marks for or practical based on relative importance, criticality of function and training infrastructure.

Please attach any documents giving further information about assessment and/or RPL.

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

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ASSESSMENT EVIDENCE

Job Role: Aircraft Power plant Technician

Qualification Pack: ASC/Q2001

Sector Skill Council: Aerospace and Aviation Sector Skill Council

Guidelines for Assessment

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC
2. The assessment for the theory part will be based on knowledge bank of questions created by the 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 this criteria
5. To pass the Qualification Pack, every trainee should score a minimum of 70% in aggregate
6. The marks are allocated PC wise, however, every NOS will carry a weightage in the total marks allocated to the specific QP

Assessment outcomes	Assessment Criteria for outcomes	Marks Allocation			
		Total Marks	Out of	Theory	Skills Practical
1. AAS/N0502 Follow safety and security procedures	PC 1. comply with the organisation's safety and security policies and procedures	100	10	5	5
	PC 2. comply with the regulatory guidelines on safe conduct of operations and maintenance of conditions to thwart any acts of unlawful interference		10	5	5
	PC 3. report any identification breaches of safety, and security policies and procedures to the designated person		10	5	5
	PC 4. coordinate with other resource at the workplace (within and outside the organisation) to achieve safe and secure environment		20	10	10
	PC 5. identify and mitigate any safety and security hazards like illness, accidents, fires or acts of unlawful interference if ti falls within the limit of individual's authority		10	5	5
	PC 6. report any hazards outside the individual's authority to the relevant person in line with organisational procedures and regulatory guidelines		20	10	10
	PC 7. follow organisation's emergency procedures for accidents, fires or acts of unlawful interference		5	2	3
	PC 8. identify and recommend opportunities for improving health, safety, and security to the designated person		10	8	2
	PC 9. complete all health and safety records are updates and procedures well defined		5	2	3
	Total	100	52	48	

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2. AAS/N2001 Understanding the process of aero-engine assembly	PC1. understand all types of drawings, sketches and work instructions at the beginning of the assembly	100	10	4	6
	PC2. understand of geometric dimensions and tolerances		10	4	6
	PC3. understand the rigs, gauges, standard tools, torque wrenches etc.		10	4	6
	PC4. understand the basics of aero engine and its parts		10	4	6
	PC5. understand the various materials, parts and consumables used during assembly process		10	4	6
	PC6. understand the criticality of sub-assemblies during assembly of engine		10	4	6
	PC7. understand the right assembly methodology and various assembling process parameters like torque application, fitting tolerances, bolting and fastening as mentioned work instruction/SOP manual		10	4	6
	PC8. understand 5 S related to the work area		5	2	3
	PC9. while understanding the drawings and sketches, must ensure the observed problems are highlighted to concerned supervisor		5	2	3
	PC10. understand the changes which may happen from time to time in assembly process based on the approved engine configuration		10	4	6
	PC11. red flagging of the deviations during the assembly of engine and raising it to concerned supervisor/Quality Inspectors		10	4	6
	Total	100	40	60	

Marks Allocation

Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out of	Theory	Skills Practical
3. AAS/N2002 Aero-engine assembly/disassembly	PC1. perform visual inspection of the bare assembled engine and record the visual findings on the engine	100	5	2	3
	PC2. perform fuel and oil draining procedure on the engine prior to disassembly as per the procedures detailed in the job cards/manufacturer manuals/organisation maintenance manuals		5	2	3
	PC3. remove the engine accessories installed on the engine cases as per the procedures detailed in the job cards/manufacturer manuals/organisation maintenance manuals		5	2	3
	PC4. perform disassembly of the engine into its modules as per manufacturer manuals and organisation maintenance manuals		5	2	3
	PC5. ensure blanking is performed on all required areas to prevent an foreign object entering the modules, accessories and LRU's		5	2	3

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	PC6. perform visual inspection of the modules and record the visual findings on the modules		5	2	3
	PC7. tag the modules with the relevant information as required under regulatory/organisational policies and procedures		5	2	3
	PC8. dispatch the modules to the appropriate module shops for further disassembly		5	2	3
	PC9. dispatch the accessories and other LRU's to the respective component shops for testing and repair with appropriate tags		5	2	3
	PC10. receive the modules from the respective modular shops and perform visual inspection on the modules to certify airworthiness of the modules		5	2	3
	PC11. inspect the documentation received along with the modules to ensure completeness of the documentation in respect to airworthiness requirements set forth by regulator/organisational policy and procedures		5	2	3
	PC12. assemble the modules in sequence as detailed in the job card/manufacture manuals/organisation maintenance manuals		5	2	3
	PC13. visually inspect the assembled modules to ensure no damage has occurred during assembly.		5	2	3
	PC14. inspect and verify if any damage found is acceptable within the airworthiness limits for engine operations		5	2	3
	PC15. receive engine accessories and LRU's from the component shops and inspect and verify that the accessories and LRU's are airworthy to be installed on the engine		5	2	3
	PC16. inspect the documentation received along with the modules to ensure completeness of the documentation in respect to airworthiness requirements set forth by regulator/organisational policy and procedures		5	2	3
	PC17. install the accessories and LRU's in sequence as detailed in the job card/manufacture manuals/organisation maintenance manuals		5	2	3
	PC18. visually inspect the installed accessories and LRU's to ensure no damage has occurred during installation.		5	2	3
	PC19. If any damage found, inspect and verify if the damage is acceptable within the airworthiness limits for engine operations		5	2	3
	PC20. dispatch the assembled engine to the engine test cell		5	2	3
		Total	100	40	60

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Assessment outcomes	Assessment Criteria for outcomes	Marks Allocation			
		Total Marks	Out of	Theory	Skills Practical
4. AAS/N2003 perform aero-engine module disassembly/assembly	PC1. receive the modules at the workshop area and perform visual inspection of the modules to identify defects	100	8	3	5
	PC2. receive the documentation received with the modules to ensure that all relevant details are filled in the documents as per regulatory/organisational policies and procedures		8	3	5
	PC3. install the modules on the disassembly rig and perform diassembly of the modules into piece parts		8	3	5
	PC4. visually inspect the disassembled piece parts and record the defects observed on the piece parts to ascertain if the defects are within acceptable limits to certify airworthiness of the piece parts		8	3	5
	PC5. tag the piece parts with the appropriate tags and ensure all relevant information is filled as per regulatory/organisation policy and procedures		8	3	5
	PC6. dispatch the piece parts to the relevant component shops for inspection and repair as deemed necessary		8	3	5
	PC7. receive the components and piece parts from the component shops and perform visual inspection to ensure no defects on the received parts		8	3	5
	PC8. ensure that defects, if any , are within the airworthiness limits for module assembly		8	3	5
	PC9. inspect and verify the airworthiness tags issued by the component shops and ensure that the tags are in line with regulatory/organisational policies and procedures		8	3	5
	PC10. install the components and piece parts on the module assembly rig		7	3	4
	PC11. perform assembly of the module		7	3	4
	PC12. visually inspect the module post assembly to ensure that there are no defects on the module beyond the airworthiness requirements		7	3	4
	PC13. issue the documentation and relavent tags for the module and dispatch the module for final engine assembly		7	3	4
	Total	100	39	61	
5. ASC/N0021 Maintain 5s at the work premises	PC1. follow the sorting process and check that the tools, fixtures & jigs that are lying on workstations are the ones in use and unnecessary items are not cluttering the workbenches or work surfaces	170	30	10	20

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PC2.	ensure segregation of waste in hazardous/ non Hazardous waste as per the sorting work instructions			
PC3.	follow the technique of waste disposal and waste storage in the proper bins as per SOP			
PC4.	segregate the items which are labeled as red tag items for the process area and keep them in the correct places			
PC5.	sort the tools/ equipment/ fasteners/ spare parts as per specifications/ utility into proper trays, cabinets, lockers as mentioned in the 5S guidelines/ work instructions			
PC6.	ensure that areas of material storage areas are not overflowing			
PC7.	properly stack the various types of boxes and containers as per the size/ utility to avoid any fall of items/ breakage and also enable easy sorting when required			
PC8.	return the extra material and tools to the designated sections and make sure that no additional material/ tool is lying near the work area	30	10	20
PC9.	follow the floor markings/ area markings used for demarcating the various sections in the plant as per the prescribed instructions and standards			
PC10.	follow the proper labeling mechanism of instruments/ boxes/ containers and maintaining reference files/ documents with the codes and the lists			
PC11.	check that the items in the respective areas have been identified as broken or damaged			
PC12.	follow the given instructions and check for labeling of fluids, oils, lubricants, solvents, chemicals etc. and proper storage of the same to avoid spillage, leakage, fire etc.	30	10	20
PC13.	make sure that all material and tools are stored in the designated places and in the manner indicated in the 5S instructions			
PC14.	check whether safety glasses are clean and in good condition			
PC15.	keep all outside surfaces of recycling containers are clean			
PC16.	ensure that the area has floors swept, machinery clean and generally clean. In case of cleaning, ensure that proper displays are maintained on the floor which indicate potential safety hazards	50	10	40
PC17.	check whether all hoses, cabling & wires are clean, in good condition and clamped to avoid any mishap or mix up			
PC18.	ensure workbenches and work surfaces are clean and in good condition			

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	PC19. follow the cleaning schedule for the lighting system to ensure proper illumination				
	PC20. store the cleaning material and equipment in the correct location and in good condition				
	PC21. ensure self-cleanliness - clean uniform, clean shoes, clean gloves, clean helmets, personal hygiene				
	PC22. follow the daily cleaning standards and schedules to create a clean working environment				
	PC23. attend all training programs for employees on 5 S				
	PC24. support the team during the audit of 5S				
	PC25. participate actively in employee work groups on 5S and encourage team members for active participation				
	PC26. follow the guidelines for What to do and What not to do to build sustainability in 5S as mentioned in the 5S check lists/ work instructions				
	Total	170	50	120	
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out of Theory	Skills Practical	
6.AAS/N2004 Prevention of FOD during engine assembly/disassembly	PC1. ensure the availability of blanking, cover etc. at the work place	100	20	10	10
	PC2. ensure that no FOD is available near the assembly/disassembly area		20	10	10
	PC3. ensure proper availability of tools, fixtures and parts		20	10	10
	PC4. ensure proper accounting of material and tools used during assembly/disassembly		20	10	10
	PC5. ensure all the open cavities are properly blanked/ covered after the completion of work		20	10	10
	Total	100	50	50	

Means of assessment 1

Written/ Viva Exam

Means of assessment 2

On the Job Observation/ work deliverables/ record sheets for practicals

Pass/Fail

Practical: 70%

Theory: 70%

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

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

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Title of Component:

Outcomes to be assessed	Assessment criteria for the outcome
Means of assessment 1	
Means of assessment 2 Add boxes as required.	
Pass/Fail	

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SECTION 2

EVIDENCE OF LEVEL

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OPTION A

Title/Name of qualification/component: Aircraft Power plant Technician		Level: 4	
NSQF Domain	Outcomes of the Qualification/Component	How the job role relates to the NSQF level descriptors	NSQF Level
Process			
Professional knowledge			
Professional skill			
Core skill			
Responsibility			

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OPTION B

Title/Name of qualification/component: Aircraft Powerplant Technician		Level: 4	
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
Process	Aircraft Powerplant Technician is responsible for assembly of engine modules, complete engine, engine accessories & LRU's	<p>The job holder is responsible for carrying out activities such as assembly/disassembly of engine modules, complete engine, engine accessories & LRU's. This involves working in some familiar, predictable and routine situations. He will be responsible for carrying out a range of jobs where some of them will require them to make choices about the approaches that must be adopted.</p> <p>Hence, it qualifies as a Level 4 Role.</p> <p>For ex: install the modules on the disassembly rig and perform disassembly of the aircraft engine modules into piece parts, tag the piece parts with the appropriate tags and ensure all relevant information is filled as per regulatory/organisation policy and procedures etc.,</p> <p>However, the job holder does not perform problem solving or supervisory role. Therefore, it does not qualify for Level 5 role.</p> <p>At the same time, the job holder is not required to work in a limited to range of jobs under close supervision. He is also not a 'partly skilled' worker, the job role cannot be pegged at level 3.</p> <p>for ex: perform visual inspection of the bare assembled engine and record the visual findings on the engine, perform fuel and oil draining procedure on the engine prior to disassembly as per the procedures detailed in the job cards/manufacture</p>	4

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Title/Name of qualification/component: Aircraft Powerplant Technician		Level: 4	
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
		manuals/organisation maintenance manuals etc as mentioned in the adjacent cell. Hence NSQF level should be 4.	
Professional knowledge	<p>The user/individual on the job needs to know and understand how to:</p> <p>comprehend the organisation’s safety and security policies and procedures, comprehend the regulatory guidelines on safe conduct of operations and maintenance of conditions to thwart any acts of unlawful interference, report any identified breaches of safety, and security policies and procedures to the designated person, coordinate with other resources at the workplace (within and outside the organisation) to achieve safe and secure environment, identify and mitigate any safety and security hazards like illness, accidents, fires or acts of unlawful interference if it falls within the limits of individual’s authority, report any hazards outside the individual’s authority to the relevant person in line with organisational procedures and regulatory guidelines, Understand the various materials, parts and consumables used during assembly/disassembly process, understand the criticality of sub-assemblies of an aero engine, understand the right assembly/disassembly methodology and various process parameters like torque application, fitting tolerances, bolting and fastening as mentioned in the work instruction/organisation maintenance</p>	<p>The job holder is expected to have factual knowledge of the field of Aircraft powerplant.</p> <p>For Ex: Knowledge about different types of Aero-Engines, Different types of manuals containing work related information, Relevant Standards & procedures followed in the organisation, 5S & safety norms practiced in the organisation etc., Since all the above mentioned areas are commensurate to the level 4 professional knowledge, the role qualifies for Level 4.</p> <p>As the job holder requires professional knowledge higher than basic facts, processes in the field etc., therefore it cannot be pegged at level 3.</p> <p>For ex: Knowledge about reading engineering drawings, process sheets, sketches etc, knowledge about Geometric Dimensioning & tolerancing etc., use of standard tools like torque wrenches, spanners, sockets etc , use of standard measuring instruments like dial gauges, comparators, bore gauges, passometers, Vernier callipers, slip gauges etc., Therefore it cannot be pegged at level 3 and ideally fit as a level 4 Job Role.</p>	4

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Title/Name of qualification/component: Aircraft Powerplant Technician		Level: 4	
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
	manuals, understand 5 S related to the work area, while understanding the drawings and sketches, he/she must ensure that the observed problems are highlighted to concerned supervisor, understand the changes which may happen from time to time in assembly/disassembly process based on the approved engine configuration etc.,		
Professional skill	The user/individual on the job needs to know and understand how to: make decisions on a suitable course of action or response if permitted by the authority matrix, monitor efficient functioning of all activities, plan and organize work to achieve targets and deadlines, communicate with customers and other stakeholders in a courteous manner, maintain cordial work relationship, identify trends/common causes for errors and suggest possible solutions to the supervisor / management, identify and correct errors, analyse best possible solutions (cost, time, effort, etc.) suited for operations, concentrate on task at hand and complete it without errors, apply balanced judgments to different situations etc.,	<p>The job holder is expected to recall and demonstrate practical skill in carrying out routine and repetitive activities in a narrow range of application, using appropriate rule and tool. For instance, Validate all the process/equipment manuals so that the final process selection is correct, effectively discuss and communicate regarding targets, activities, processes etc with supervisor and co-workers, question supervisor in order to understand the nature of problem etc.,</p> <p>As the job does not require to recall and demonstrate practical skill, routine and repetitive in narrow range application. For ex: Organise & prioritise the job received from the production manager, support the supervisor in scheduling tasks for timely completion of the job, recognise a work place problem or a potential problem and take action etc., Here the job holder has to use appropriate rules and tools to perform his role, this role does not fit at level 3 but at level 4.</p>	4
Core skill	The individual on the job needs to know and understand how to:	The job holder is expected to complete accurate, complete accurately well written report in English language detailing the	4

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Title/Name of qualification/component: Aircraft Powerplant Technician		Level: 4	
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
	<p>complete accurately well written report in English language detailing the situations of emergency with attention to detail, read instructions/ guidelines/ procedures/rules, listen to and orally communicate information with all concerned, document the available information, note down observations in the given format, write information documents to concerned departments/teams under guidance of supervisor, enter the information in Inspection record sheets, relevant registers etc., read and interpret engineering drawings, sketches and symbols used, read the organisation/manufacturer manuals and process documents, effectively discuss and communicate regarding targets, activities, processes etc with supervisor and co-workers, question supervisor in order to understand the nature of problem.</p>	<p>situations of emergency with attention to detail, read instructions/ guidelines/ procedures/rules, listen to and orally communicate information with all concerned, document the available information, note down observations in the given format, write information documents to concerned departments/teams under guidance of supervisor, enter the information in online ERP systems under guidance of the supervisor etc., read and interpret engineering drawings, sketches and symbols used, read the organisation/manufacturer manuals and process documents. Hence, this role qualifies for Level 4.</p> <p>As the job holder requires core skills of language, written and oral to communicate with required clarity, read instructions/guidelines and communicate higher than requiring core skills of language, written and oral to communicate with minimum clarity, therefore it cannot be pegged at level 3.</p>	
Responsibility	<p>The Aircraft Powerplant Technician is responsible for</p> <ul style="list-style-type: none"> • Follow safety and security procedures • Understanding the process of aero engine assembly • Aero-engine assembly/disassembly • Perform aero-engine module disassembly/assembly • Maintain 5S at the work premises 	<p>The job holder is responsible for only own work and learning. S/he is a skilled worker who carries out work activities of Follow safety and security procedures, Understanding the process of aero engine assembly, Aero-engine assembly/disassembly, perform aero-engine module disassembly/assembly and maintain 5S at the work premises. Hence, this role qualifies for Level 4. It does not comprise of any supervisory activities.</p>	4

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Title/Name of qualification/component: Aircraft Powerplant Technician		Level: 4	
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
		<p>As this job is about having responsibility for own working and learning and is not working under close supervision within defined limits. Therefore, it cannot be pegged at level 3.</p> <p>For ex: Receive engine accessories and LRU's from the component shops and inspect and verify that the accessories and LRU's are airworthy to be installed on the engine, install the accessories and LRU's in sequence as detailed in the job card/manufacturer manuals/organisation maintenance manuals, visually inspect the installed accessories and LRU's to , inspect and verify if any damage found is acceptable within the airworthiness limits for engine operations ensure no damage has occurred during installation, dispatch the assembled engine to the engine test cell etc.,</p>	

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SECTION 3

EVIDENCE OF NEED

What evidence is there that the qualification is needed?

- Feedback from the industry was collected with respect to the past and projected industry growth, projected employee growth and Industry requirement is 7.
- During the industry interactions carried out while creating occupational maps and prioritisation of job roles for QP development, the mentioned qualification was indicated as a key requirement by the industry. The expert group / Subcommittee of QP-NOS shared the final approval for the development of the role. The Qualification has been validated by leading associations and companies like such as MRO Association of India , Air India Engineering Services Ltd, Hindustan Aeronautics Ltd, GMR Aero Technic Ltd, Airworks, Aman Aviation , Varman Aviation, Haveus Aerotech
- In addition, various skill reports project the demand of the skilled workforce and the projected industry growth of the Aviation industry in India.
- Demand assessed through Industry – Stakeholder interaction.
- Evidence of the qualification is supported by validations. The complete list of validating companies has been enclosed as an annexure to the Q- File.

What is the estimated uptake of this qualification and what is the basis of this estimate?

- Occupation Map and Industry feedback for the skill gap between the industry demand and institutional supply provide the basis for estimated uptake. This is the basis for planning training with the industry and training providers.
- Estimated No. of people for this job role is 15,814 until the year 2025.

What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF?

- The qualification discussed above is checked for any duplication across sectors. Given the qualification is niche to MRO sector, there is no duplication or pre-existing qualifications.
- The QP has been compiled keeping in mind the industry requirements and review existing QP-NOS

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?

- Employee & employer feedback will be sought after placement.
- A review will happen after three-year period, the comments and feedback after which will be incorporated in the next/updated QP NOS.

Please attach any documents giving further information about any of the topics above.

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

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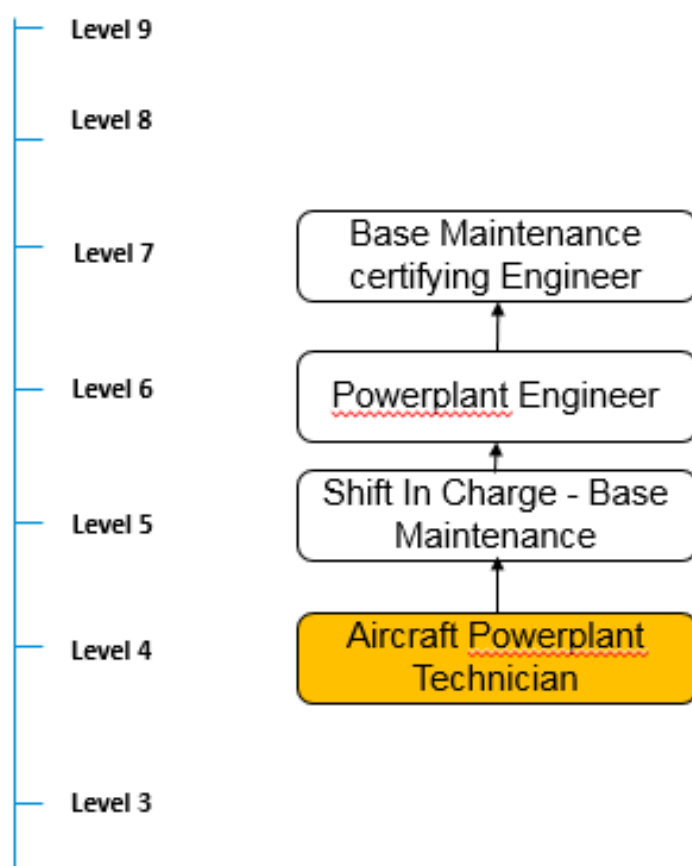
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SECTION 4

EVIDENCE OF PROGRESSION

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?

- While designing the National Occupational Standards, occupational mapping was done on a large sample size and validated across the country. The career progression for roles in each occupation was also analysed and decided, based on industry validation across the country. The current challenges faced by the industry, at large was also kept in mind.



Please attach any documents giving further information about any of the topics above.

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

Give details of the document(s) here:

Annexure 1 : Career path of Aircraft Powerplant Technician in **AASSC_QRC presentation_final_MRO.ppt**

Annexure 2: QP- NOS : **AAS/Q2001_ Aircraft Powerplant Technician**

Annexure 3 : Refer Folder- **Skill Demand Reports.**