

Model Curriculum

Airline First Officer

SECTOR: AEROSPACE AND AVIATION
SUB-SECTOR: AIRLINE
OCCUPATION: OPERATIONS
REF ID: AAS/Q0606, V1.0
NSQF LEVEL: 6

 Skill India असतो मा सद्गमय	 Aerospace & Aviation Sector Skill Council	 N·S·D·C National Skill Development Corporation
<h2>Certificate</h2> <p>CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS is hereby issued by the</p> <p>AEROSPACE & AVIATION SECTOR SKILL COUNCIL (AASCC)</p> <p>for the</p> <p>MODEL CURRICULUM</p> <p>Complying to National Occupational Standards of Job Role/Qualification Pack : 'Airline First Officer' QP No. 'AAS/Q0606' NSQF level 6'</p> <hr/> <p style="text-align: right;"> (Authorised signatory) Aerospace & Aviation Sector Skill Council (AASCC)</p>		
<p>Date of issuance : 12 December 2017 Valid up to : 11 December 2018 * Valid up to the next review date of the Qualification Pack</p>		

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Airline First Officer

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Airline First Officer”, in the “Aerospace and Aviation” Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Airline First Officer		
Qualification Pack Name & Reference ID.	AAS/Q0606		
Version No.	1.0	Version Update Date	15 – 03 - 2017
Pre-requisites to Training	Class XII (Science, Maths)		
Training Outcomes	<p>After completing this programme, participants will be able to;</p> <ul style="list-style-type: none"> • Fly passengers and/or cargo on long or short-haul flights for leisure, business or commercial purposes. • Achieve basic communication skills and good inter-personal skills. • Acquire both, medical and attitude standards set forth by the regulator/organisation 		

This course encompasses 4 out of 4 National Occupational Standards (NOS) of “Airline First Officer” Qualification Pack issued by “Aerospace and Aviation Sector Skill Council (AASCC)”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p>Follow safety and security procedures Theory Duration (hh:mm) 25:00 Practical Duration (hh:mm) 23:00 Corresponding NOS Code AAS/N0502</p>	<p>Candidates will be able to;</p> <ul style="list-style-type: none"> 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 follow organization’s emergency procedures for accidents, fires or acts of unlawful interference identify and recommend opportunities for improving health, safety, and security to the designated person complete all health and safety records are updates and procedures well defined Knowledge and Understanding 	<p>White/Black board, Markers, computer and projector, trainer’s guide, student handbook, Charts regarding health & hygiene, fire-fighting, first aid, chart of prohibited items,</p>
2	<p>Perform Pre-flight tasks of Pilot Theory Duration (hh:mm) 269:00 Practical Duration (hh:mm) 211:00 Corresponding NOS Code AAS/N0612</p>	<p>Candidates will be able to;</p> <ul style="list-style-type: none"> perform visual check of the external of the aircraft in accordance with organization procedures, aircraft manufacturer procedures and recommendations and regulatory procedures perform cabin inspection and ensure all required documentations are updated and available in the cabin. communication with the engineers on ground and check for any maintenance logs which can impact the aircraft operations ensure if any Minimum Equipment Lists (MEL's) required are in place and appropriate action for the MEL 	<p>White/Black board/ Chart paper, Markers/Computer and projector, trainer’s guide, student handbook,</p>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<p>has been factored in during flight operations</p> <ul style="list-style-type: none"> assist the commander as requested carry out pre-flight checks of instruments, engines, fuel and safety Systems gather all the required data about weather from MET and ground crew gather all the required data from ATC regarding the route to be followed during the flight calculate the fuel required for the flight provide necessary instructions for fueling of the aircraft in lines with the calculated fuel prepare the flight plan assist the commander as required provide information to ATC as a when required provide a preflight briefing to the cabin crew with details of the flight 	
3	<p>Undertake Flight operations Theory Duration (hh:mm) 622:00 Practical Duration (hh:mm) 674:00 Corresponding NOS Code AAS/N0613</p>	<p>Candidates will be able to;</p> <ul style="list-style-type: none"> liaise with ATC for take-off clearance and route confirmation pilot the aircraft for safe operations through take off - climb -cruise - descent and landing phase of the flight continuously monitor the aircraft system during the flight undertake troubleshooting as and when required continuously monitor air traffic in visual range, aircraft position and weather updates en-route the flight undertake announcements to the passengers as and when required communicate with cabin crew to provide necessary information or gather updates as and when required perform any other function as requested by the commander of the flight 	<p>White/Black board, Markers, computer and projector, trainer's guide, student handbook,</p>
4	<p>Perform Post-Flight tasks of Pilot Theory Duration (hh:mm) 235:00 Practical Duration (hh:mm) 245:00 Corresponding NOS Code AAS/N0614</p>	<p>Candidates will be able to;</p> <ul style="list-style-type: none"> assimilate the documents required to prepare the trip file as per organisational and regulatory policies verify the accuracy of the documents to ensure the documents are complete in all respect and relate to the same aircraft or flight close the flight in the departure control system being used by the airline and ensure the flight is closed without any errors 	<p>White/Black board, Markers, computer and projector, trainer's guide, student handbook,</p>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> file the relevant documents in the trip file and store as per the standards of the organisation and regulatory standards 	
	<p>Total Duration Theory Duration (hh:mm) 1151:00 Practical Duration (hh:mm) 1153:00</p>	<p>Unique equipment used;</p> <ul style="list-style-type: none"> Flight Simulator (type rated) Tablets with cockpit linked flight information system software Cockpit display simulator Radio sets 	

Grand Total Course Duration: 2304 Hours, 0 Minutes

(This syllabus/ curriculum has been approved by [Aerospace and Aviation Sector Skill Council](#))

Trainer Prerequisites for Job role: “Airline First Officer” mapped to Qualification Pack: “AAS/Q0606”

Sl. No.	Area	Details
1	Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “AAS/Q0606”.
2	Personal Attributes	Aptitude for conducting training, and pre/post work to ensure competent, employable candidates at the end of the training. Strong communication skills, interpersonal skills, ability to work as part of a team; a passion for quality and for developing others; well organised and focused, eager to learn and keep oneself updated with the latest in the mentioned field.
3	Minimum Educational Qualifications	Graduate with Class XII in Science & Math
4a	Domain Certification	Statutory Certificate from Aerospace and Aviation Sector Skill Council (AASSC) for Job Role: “Airline First Officer” mapped to QP: “AAS/Q0606”. Minimum accepted score for domain certification will be 80%.
4b	Platform Certification	Recommended that the Trainer is certified for the job role “Trainer” mapped to the Qualification Pack “MEP/Q0102”. Minimum accepted percentage as per respective SSC guidelines is 80%.
5	Experience	2-3 years of experience

Annexure : Assessment Criteria

Job Role	Airline First Officer
Qualification Pack	AAS/Q0606
Sector Skill Council	Aerospace and Aviation Sector Skill Council

Sl. No.	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 identified breaches of safety, and security policies and procedures to the designated person		10	5	5
	PC 4. coordinate with other resources at the workplace (within and outside the organisation) to achieve safe and secure environment		10	5	5
	PC 5. 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		20	10	10
	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. ensure all health and safety records are updated and procedures well defined		5	2	3
		Total	100	52	48
		Marks Allocation			
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out of	Theory	Skills Practical
2. AAS/N0612 Perform Pre-flight checks of Pilot	PC1. perform visual check of the external of the aircraft in accordance with organisation procedures, aircraft manufacturer procedures and recommendations and regulatory procedures	100	8	4	4
	PC2. perform cabin inspection and ensure all required documentations are updated and available in the cabin.		7	4	3
	PC3. communicate with the engineers on ground and check for any maintenance logs which can impact the aircraft operations		7	4	3
	PC4. ensure if any MEL's required are in place and appropriate action for the MEL has been factored in during flight operations		8	4	4
	PC5. assist the commander as requested		7	4	3
	PC6. carry out pre-flight checks of instruments, engines, fuel and safety systems		7	4	3
	PC7. gather and interpret all the required data about weather from MET and ground crew		7	4	3
	PC8. gather and interpret all the required data from ATC regarding the route to be followed during the flight		7	4	3
	PC9. calculate the fuel required for the flight		7	4	3
	PC10. provide necessary instructions for fuelling of the aircraft in lines with the calculated fuel		7	4	3
	PC11. prepare the flight plan		7	4	3
	PC12. assist the commander as required		7	4	3
	PC13. provide information to ATC as an when required		7	4	3
	PC14. provide a preflight briefing to the cabin crew with details of the flight		7	4	3
		Total	100	56	44
		Marks Allocation			
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out of	Theory	Skills Practical

3. AAS/N0613 Undertake Flight operations	PC1. liaise with ATC for take off clearance and route confirmation	100	12	6	6
	PC2. pilot the aircraft for safe operations through take off - climb - cruise - descent and landing phase of the flight		13	6	7
	PC3. continuously monitor the aircraft system during the flight		13	6	7
	PC4. undertake troubleshooting as and when required		13	6	7
	PC5. continuously monitor air traffic in visual range, aircraft position and weather updates en route the flight		13	6	7
	PC6. undertake announcements to the passengers as and when required		12	6	6
	PC7. communicate with cabin crew to provide necessary information or gather updates as and when required		12	6	6
	PC8. perform any other function as requested by the commander of the flight		12	6	6
	Total	100	48	52	
			Marks Allocation		
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out of	Theory	Skills Practical
4. AAS/N0614 Perform Post Flight tasks of Pilot	PC1. communicate with the ground staff to update the nature of flight undertaken	100	15	7	8
	PC2. provide additional information as deemed necessary to the engineering team on any of the maintenance related events during the flight		15	7	8
	PC3. perform a de briefing session with the cabin crew		14	7	7
	PC4. provide inputs to the flight dispatch team on any visual weather conditions or air traffic as noticed during the flight		14	7	7
	PC5. update the pilot report for the flight		14	7	7
	PC6. undertake announcements to the passengers as and when required		14	7	7
	PC7. perform any other function as requested by the commander of the flight		14	7	7
	Total	100	49	51	
	Grand Total (Marks)		400	195	205
	Percentage Weightage (%)		--	49	51