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# Model Curriculum

## Airport Fire Prevention Crew

**SECTOR: AEROSPACE AND AVIATION**  
**SUB-SECTOR: AIRPORT OPERATIONS, CARGO AND GROUND HANDLING**  
**OCCUPATION: AIR SIDE OPERATIONS**  
**REF ID: AAS/Q4102, V1.0**  
**NSQF LEVEL: 4**

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## Certificate

**CURRICULUM COMPLIANCE TO  
QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS**  
is hereby issued by the

**AEROSPACE & AVIATION SECTOR SKILL COUNCIL (AASCC)**

for the

### MODEL CURRICULUM

Complying to National Occupational Standards of

Job Role/Qualification Pack : 'Airport Fire Prevention Crew' QP No. 'AAS/Q4102' **NSQF level 4**'

Date of issuance : 03 October 2017  
Valid up to : 02 October 2018  
\* Valid up to the next review date of the Qualification Pack



(Authorised signatory)  
Aerospace & Aviation Sector Skill Council (AASCC)

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# Airport Fire Prevention Crew

## CURRICULUM / SYLLABUS

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

Program Name	Airport Fire Prevention Crew		
Qualification Pack Name & Reference ID.	AAS/Q4102		
Version No.	1.0	Version Update Date	28 – 06 - 2017
Pre-requisites to Training	Graduate		
Training Outcomes	<p>After completing this programme, participants will be able to</p> <ul style="list-style-type: none"> <li>• Perform regular fire safety audits through various means including physical checking of various areas of airport and to ascertain the risk and hazards at the airport.</li> <li>• Achieve basic communication skills and good interpersonal skills.</li> <li>• Acquire physical endurance, responsibility and an eye for details.</li> </ul>		

This course encompasses 3 out of 3 National Occupational Standards (NOS) of “Airport Fire Prevention Crew” Qualification Pack issued by “Aerospace and Aviation Sector Skill Council (AASSC)”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p><b>Follow safety and security procedures</b>  <b>Theory Duration</b> (hh:mm)  <b>25:00</b>  <b>Practical Duration</b>            (hh:mm)  <b>23:00</b>  <b>Corresponding NOS Code</b>  <b>AAS/N0502</b></p>	<p>Candidates will be able to;</p> <ul style="list-style-type: none"> <li>• comply with the organisation’s safety and security policies and procedures</li> <li>• comply with the regulatory guidelines on safe conduct of operations and maintenance of conditions to thwart any acts of unlawful interference</li> <li>• report any identified breaches of safety, and security policies and procedures to the designated person</li> <li>• coordinate with other resources at the workplace (within and outside the organization) to achieve safe and secure environment</li> <li>• 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</li> <li>• report any hazards outside the individual’s authority to the relevant person in line with organisational procedures and regulatory guidelines</li> <li>• follow organisation’s emergency procedures for accidents, fires or acts of unlawful interference</li> <li>• identify and recommend opportunities for improving health, safety, and security to the designated person</li> <li>• ensure all health and safety records are updated and procedures well defined</li> </ul>	<p>White/Black board/ Chart paper, Markers/Computer and projector, trainer’s guide, student handbook, Charts regarding health &amp; hygiene, fire-fighting, first aid, chart of prohibited items, chart of parking layout, traffic markings, video content demonstrating safety &amp; security procedures.</p>
2	<p><b>Provide fire prevention services</b>  <b>Theory Duration</b> (hh:mm)  <b>74:00</b>  <b>Practical Duration</b>            (hh:mm)  <b>86:00</b>  <b>Corresponding NOS Code</b>  <b>AAS/N4102</b></p>	<p>Candidates will be able to;</p> <ul style="list-style-type: none"> <li>• identify fire hazards through any of following :               <ul style="list-style-type: none"> <li>* Sources of ignition</li> <li>* Sources of fuel/combustible materials</li> <li>* Sources of oxygen and other probability</li> </ul> </li> <li>• identify the people at risk</li> <li>• evaluate the risk of the fire occurring</li> <li>• remove or reduce the hazards that may cause a fire</li> <li>• evaluate evacuation of people in proportion with Entry/Exits</li> <li>• maintain Record of the actions related to prevention</li> <li>• evaluate the Fire emergency response plan in co-ordination with emergency planner</li> <li>• evaluate the Emergency escape / evacuation plan and ensure that it is</li> </ul>	<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>displayed at strategic locations in the terminal buildings and all the major buildings in co-ordination with emergency planner</p> <ul style="list-style-type: none"> <li>• inspect installed Fire Extinguishers</li> <li>• ensure that the inspection records are updated and displayed on the extinguishers</li> <li>• inspect installed fire hydrants</li> <li>• evaluate and assess that the fire hydrants are accessible and have three feet clearance around the hydrant</li> <li>• perform pressure testing of fire Hydrants</li> <li>• perform static tank inspection</li> <li>• perform calibration of pressure gauges</li> <li>• ensure the jockey pump operates automatically when the system pressure falls below 2 bar of the set pressure</li> <li>• ensure that Main pump operates automatically when the pressure of the jockey pump falls below specified limit</li> <li>• ensure that pump system is to be maintained on Auto mode all the time</li> <li>• inspect serviceability of Fire detectors, Manual Call Points (MCP)</li> <li>• ensure that the fire alarm bells/horns/strobes must not be visually blocked, muffled, or muted</li> <li>• identify the hazards/Risk</li> <li>• ensure adequate fire protection is available</li> <li>• ensure no escape routes &amp; emergency exits are obstructed/ blocked</li> </ul>	
3	<p><b>Work Effectively in a Team</b> Theory Duration (hh:mm) <b>13:00</b> Practical Duration (hh:mm) <b>19:00</b> Corresponding NOS Code <b>AAS/N0503</b></p>	<p>Candidates will be able to;</p> <ul style="list-style-type: none"> <li>• display courteous and helpful behaviour at all times</li> <li>• take opportunities to enhance the level of assistance offered to colleagues</li> <li>• meet all reasonable requests for assistance within acceptable workplace timeframes</li> <li>• complete allocated tasks as required</li> <li>• seek assistance when difficulties arise</li> <li>• use questioning techniques to clarify instructions or responsibilities</li> <li>• identify and display a non discriminatory attitude in all contacts</li> </ul>	<p>White/Black board/ Chart paper, Markers/Computer and projector, trainer's guide, student handbook, video film demonstrating typical questioning techniques</p>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<p>with customers and other staff members</p> <ul style="list-style-type: none"> <li>• observe appropriate dress code and presentation as required by the workplace, job role and level of customer contact</li> <li>• follow personal hygiene procedures according to organisational policy and relevant legislation</li> <li>• interpret, confirm and act on workplace information, instructions and procedures relevant to the particular task</li> <li>• interpret, confirm and act on legal requirements in regard to anti-discrimination, sexual harassment and bullying</li> <li>• ask questions to seek and clarify workplace information</li> <li>• plan and organise daily work routine within the scope of the job role</li> <li>• prioritise and complete tasks according to required timeframes</li> <li>• identify work and personal priorities and achieve a balance between competing priorities</li> </ul>	
	<p><b>Total Duration</b> <b>Theory Duration</b> (hh:mm) <b>112:00</b> <b>Practical Duration</b> (hh:mm) <b>128:00</b></p>	<p>Unique equipment used;</p> <ul style="list-style-type: none"> <li>• personal protective equipment (PPE) (consisting of safety jacket &amp; safety shoes)</li> <li>• Fire access &amp; escape ladders</li> <li>• Airport Layout Plan (Dummy)</li> <li>• Building Plan (Dummy)</li> <li>• Fire Extinguishers (for solid, liquid, gaseous and electrical fires)</li> <li>• First aid kit</li> <li>• Fire Alarm system</li> <li>• Fire Hydrant system</li> <li>• Emergency Escape/Evacuation Plan (Dummy)</li> <li>• Pressure check/Calibration device</li> <li>• Fire detector system</li> <li>• Static water tank system</li> </ul>	

**Grand Total Course Duration: 240 Hours, 0 Minutes**

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

## Trainer Prerequisites for Job role: “Airport Fire Prevention Crew” mapped to Qualification Pack: “AAS/Q4102”

Sl. No.	Area	Details
1	Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “AAS/Q4102”.
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
4a	Domain Certification	Statutory Certificate from Aerospace and Aviation Sector Skill Council (AASSC) for Job Role: “ <u>Airport Fire Prevention Crew</u> ” mapped to QP: “ <u>AAS/Q4102</u> ”. 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/Q 0102”. Minimum accepted percentage as per respective SSC guidelines is 80%.
5	Experience	2-3 years of experience



## Annexure: Assessment Criteria

<b>Assessment Criteria</b>	
<b>Job Role</b>	<b>: Airport Fire Prevention Crew</b>
<b>Qualification Pack</b>	<b>: AAS/Q4102</b>
<b>Sector Skill Council</b>	<b>: Aerospace and Aviation</b>

<b>Sl. No.</b>	<b>Guidelines for Assessment</b>
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

		Marks Allocation			
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out of	Theory	Skills Practical
<b>1. AAS/ N 0502 Follow safety and security procedures</b>	PC 1. Comply with the organisation's safety and security policies and procedures	<b>100</b>	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		20	10	10
	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		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. ensure all health and safety records are updated and procedures well defined		5	2	3
		<b>Total</b>	<b>100</b>	<b>52</b>	<b>48</b>
		<b>Marks Allocation</b>			
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out of	Theory	Skills Practical
<b>2. AAS/N4102 provide fire prevention services</b>	PC1. identify fire hazards through any of following : Sources of ignition Sources of fuel/combustible materials Sources of oxygen and other probability	<b>100</b>	5	2	3
	PC2. identify the people at risk		5	2	3
	PC3. evaluate the risk of the fire occurring		5	2	3
	PC4. remove or reduce the hazards that may cause a fire		5	2	3
	PC5. evaluate evacuation of people in proportion with Entry/Exits		5	2	3
	PC6. maintain Record of the actions related to prevention		5	2	3
	PC7. evaluate the Fire emergency response plan in co-ordination with emergency planner		5	2	3

PC8. evaluate the Emergency escape / evacuation plan and ensure that it is displayed at strategic locations in the terminal buildings and all the major buildings in co-ordination with emergency planner.	5	2	3
PC9. inspect installed Fire Extinguishers	4	2	2
PC10. ensure that the inspection records are updated and displayed on the extinguishers.	4	2	2
PC11. inspect installed fire hydrants	4	2	2
PC12. evaluate and assess that the fire hydrants are accessible and have three feet clearance around the hydrant.	4	2	2
PC13. perform pressure testing of fire Hydrants	4	2	2
PC14. perform static tank inspection	4	2	2
PC15. perform calibration of pressure gauges	4	2	2
PC16. ensure the jockey pump operates automatically when the system pressure falls below 2 bar of the set pressure.	4	2	2
PC17. ensure that Main pump operates automatically when the pressure of the jockey pump falls below specified limit.	4	2	2
PC18. ensure that pump system is to be maintained on Auto mode all the time.	4	2	2
PC19. inspect serviceability of Fire detectors, Manual Call Points (MCP)	4	2	2
PC20. ensure that the fire alarm bells/horns/strobes must not be visually blocked, muffled, or muted.	4	2	2
PC21. Identify the hazards/Risk	4	2	2
PC22. ensure adequate fire protection is available	4	2	2
PC23. ensure no escape routes & emergency exits are obstructed/ blocked.	4	2	2
<b>Total</b>	<b>100</b>	<b>46</b>	<b>54</b>

Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Marks Allocation		
			Out of	Theory	Skills Practical
<b>3. AAS / N0503 Work Effectively as a Team</b>	PC1. display courteous and helpful behaviour at all times.	<b>100</b>	8	3	5
	PC2. take opportunities to enhance the level of assistance offered to colleagues.		7	3	4
	PC3. meet all reasonable requests for assistance within acceptable workplace timeframes.		8	3	5
	PC4. complete allocated tasks as required.		4	1	3
	PC5. seek assistance when difficulties arise.		3	1	2
	PC6. use questioning techniques to clarify instructions or responsibilities.		7	3	4
	PC7. identify and display a non-discriminatory attitude in all contacts with customers and other staff members.		7	3	4

	PC8. observe appropriate dress code and presentation as required by the workplace, job role and level of customer contact.		7	3	4
	PC9. follow personal hygiene procedures according to organisational policy and relevant legislation.		7	3	4
	PC10. interpret, confirm and act on workplace information, instructions and procedures relevant to the particular task.		7	3	4
	PC11. interpret, confirm and act on legal requirements in regard to anti- discrimination, sexual harassment and bullying.		7	3	4
	PC12. ask questions to seek and clarify workplace information.		7	3	4
	PC13. plan and organise daily work routine within the scope of the job role.		7	3	4
	PC14. prioritise and complete tasks according to required timeframes.		7	3	4
	PC15. identify work and personal priorities and achieve a balance between competing priorities.		7	3	4
		<b>Total</b>	<b>100</b>	<b>42</b>	<b>58</b>
		<b>Grand Total (Marks)</b>	<b>300</b>	<b>140</b>	<b>160</b>
		<b>Percentage Weightage (%)</b>		<b>47</b>	<b>53</b>