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# Model Curriculum

## Airport Crash Fire Tenders and Rescue Crew

**SECTOR: AEROSPACE AND AVIATION**  
**SUB-SECTOR: AIRPORT OPERATIONS, CARGO AND GROUND HANDLING**  
**OCCUPATION: AIR SIDE OPERATIONS**  
**REF ID: AAS/Q4101, 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 Crash Fire Tenders and Rescue Crew'** QP No. **'AAS/Q4101' 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 Crash Fire Tenders and Rescue Crew

## CURRICULUM / SYLLABUS

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

Program Name	Airport Crash Fire Tenders and Rescue Crew		
Qualification Pack Name & Reference ID.	AS/Q0802		
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>Attend to any emergency situation occurring at the airport or in the immediate vicinity involving aircraft accident/incident, damage to public property etc.</li> <li>Provide fire-fighting, rescue operation and first aid services to save lives.</li> <li>Achieve basic communication skills and good inter-personal skills.</li> <li>Acquire abilities to stand and walk for long periods of time with regular/consistent kneeling, squatting and reaching over the head with caution to avoid accidents.</li> </ul>		

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

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, personal protective equipment (PPE) (consisting of safety jacket, safety goggles, ear plugs, gloves &amp; safety shoes)</p>
2	<p><b>Provide emergency fire crash services</b>  <b>Theory Duration</b> (hh:mm)  <b>78:00</b>  <b>Practical Duration</b>            (hh:mm)  <b>82:00</b>  <b>Corresponding NOS Code</b>  <b>AAS/N4101</b></p>	<p>Candidates will be able to:</p> <ul style="list-style-type: none"> <li>• interpret the aerodrome layout with details of various structures on the airport</li> <li>• communicate with ATC effectively for diversion of air traffic and the status of aerodrome layout impacted due to fire/accident/incident</li> <li>• dispatch the fire services to attend to emergencies fires on aircraft accident, incident or non-aircraft fires at an aerodrome in the shortest possible time</li> <li>• perform fire-fighting and rescue operation in line with laid down procedures</li> <li>• perform special duties for wash down fuel spillage, fire escort, hot work standby, fueling standby, hazardous cargo standby, etc</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
		<ul style="list-style-type: none"> <li>participate in drills, lectures, fire exercises and physical training</li> <li>comply with the Fire and safety Procedures, directives and Instruction</li> <li>render first aid services at the accident/incident scene till the arrival of regular medical services</li> <li>maintain a state of alertness on 24 hours on standby for duty</li> </ul>	
3	<p><b>Work Effectively in a Team</b>  <b>Theory Duration</b> (hh:mm)  <b>13:00</b>  <b>Practical Duration</b>            (hh:mm)  <b>19:00</b>  <b>Corresponding NOS Code</b>  <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 with customers and other staff members</li> <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 workplace information, instructions and procedures relevant to the particular task</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>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><b>Total Duration</b>  <b>Theory Duration</b> (hh:mm)  <b>116:00</b>  <b>Practical Duration</b>            (hh:mm)  <b>124:00</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 Crash Fire Tenders and Rescue Crew” mapped to Qualification Pack: “AAS/Q4101”

Sl. No.	Area	Details
1	Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “AAS/Q4101”.
2	Personal Attributes	Aptitude for conducting training 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 Crash Fire Tenders and Rescue Crew</u> ” mapped to QP: “ <u>AAS/Q4101</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 Crash Fire Tenders and Rescue Crew</b>
<b>Qualification Pack</b>	<b>: AAS/Q4101</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

Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out of	Marks Allocation	
				Theory	Skills Practical
<b>1. AAS/ N0502</b> Follow safety and security procedures	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>	
				Marks Allocation	
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out of	Theory	Skills Practical
<b>2. AAS/ N4101</b> provide emergency fire crash services	PC1.interpret the aerodrome layout with details of various structures on the airport	<b>100</b>	15	7	3
	PC2. communicate with ATC effectively for diversion of air traffic and the status of aerodrome layout impacted due to fire/accident/incident		10	5	3
	PC3. dispatch the fire services to attend to emergencies fires on aircraft accident, incident or non-aircraft fires at an aerodrome in the shortest possible time		10	5	3
	PC4.perform fire-fighting and rescue operation		15	7	3
	PC5. perform special duties for wash down fuel spillage, fire escort, hot work standby, fuelling standby, hazardous cargo standby, etc.		10	5	3

	PC6. participate in drills, lectures, fire exercises and physical training.		10	5	3
	PC7. adhere to the Fire and safety Procedures, directives and Instruction.		10	5	3
	PC8. render first aid services at the accident/incident scene till the arrival of regular medical services.		10	5	3
	PC9. maintain a state of alertness on 24 hours on standby for duty.		10	5	3
		<b>Total</b>	<b>100</b>	<b>49</b>	<b>51</b>
			<b>Marks Allocation</b>		
<b>Assessment outcomes</b>	<b>Assessment Criteria for outcomes</b>	<b>Total Marks</b>	<b>Out of</b>	<b>Theory</b>	<b>Skills Practical</b>
<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>143</b>	<b>157</b>
	<b>Percentage Weightage (%)</b>			<b>48</b>	<b>52</b>