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# Model Curriculum

## Airport X Ray Qualified Staff

**SECTOR:** AEROSPACE AND AVIATION  
**SUB-SECTOR:** AIRPORT OPERATIONS, CARGO AND GROUND HANDLING  
**OCCUPATION:** TERMINAL OPERATIONS  
**REF ID:** AAS/Q4501, V1.0  
**NSQF LEVEL:** 4

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Skill India  
अभिर मेहेर - कुशर मेहेर

  
Aerospace & Aviation  
Sector Skill Council

  
N·S·D·C  
National  
Skill Development  
Corporation

## 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 X Ray Qualified Staff'** QP No. **'AAS/Q4501' NSQF level 4'**

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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 X Ray Qualified Staff

## CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Airport X Ray Qualified Staff”, in the “Aerospace & Aviation” Sector/Industry and aims at building the following key competencies amongst the learner

|   |   |                     |                |
|---|---|---------------------|----------------|
| Program Name                            | Airport X Ray Qualified Staff   |                     |                |
| Qualification Pack Name & Reference ID. | AAS/Q4501   |                     |                |
| Version No.                             | 1.0   | Version Update Date | 28 – 06 - 2017 |
| Pre-requisites to Training              | Class XII   |                     |                |
| Training Outcomes                       | <p>After completing this programme, participants will be able to</p> <ul style="list-style-type: none"> <li>• Responsibly screen passenger baggages and cargo being loaded on an aircraft for transport.</li> <li>• Identify any suspicious / illegal/ dangerous substance that being carried in the baggage / cargo and notify the appropriate agencies</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 X Ray Qualified Staff” Qualification Pack issued by “Aerospace & Aviation Sector Skill Council (AASCC)”.

| Sr. No. | Module  | Key Learning Outcomes   | Equipment Required   |
|---------|---|---|--|
| 1       | <p><b>Follow safety and security procedures</b><br/> <b>Theory Duration</b> (hh:mm)<br/> <b>25:00</b><br/> <b>Practical Duration</b><br/>           (hh:mm)<br/> <b>23:00</b><br/> <b>Corresponding NOS Code</b><br/> <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 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>Perform security screening of baggages</b><br/> <b>Theory Duration</b> (hh:mm)<br/> <b>67:00</b><br/> <b>Practical Duration</b><br/>           (hh:mm)<br/> <b>93:00</b><br/> <b>Corresponding NOS Code</b><br/> <b>AAS/N4501</b></p> | <p>Candidates will be able to;</p> <ul style="list-style-type: none"> <li>• Search carry-on or checked baggage by hand when it is suspected to contain prohibited items such as weapons</li> <li>• Inspect carry-on items, using x-ray viewing equipment, to determine whether items contain objects that warrant further.</li> <li>• Inspect cargo to identify potential hazards.</li> <li>• interpret images of checked bags and cargo, using remote screening equipment, and alert baggage screeners or handlers to any possible problems.</li> <li>• Test baggage for any explosive materials, using equipment such as explosive detection machines or chemical swab systems.</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>Locate suspicious bags pictured in printouts sent from remote monitoring areas, and set these bags aside for inspection.</li> <li>Confiscate dangerous items and hazardous materials found in opened bags and turn them over to airlines for disposal</li> </ul>   |  |
| 3       | <p><b>Take action to deal with incidents, accidents and emergencies in the aviation security environment</b></p> <p><b>Theory Duration</b> (hh:mm)<br/><b>16:00</b></p> <p><b>Practical Duration</b> (hh:mm)<br/><b>16:00</b></p> <p><b>Corresponding NOS Code</b><br/><b>AAS/N0501</b></p> | <p>Candidates will be able to;</p> <ul style="list-style-type: none"> <li>Comprehend the probability and severity of emergency situations</li> <li>Take action to deal with emergencies, incidents or accidents in line with its organisation's procedures and regulatory guidelines</li> <li>Make sure the action planned does not increase the risk or threat to oneself and others</li> <li>Consider the needs of others when taking action</li> <li>Keep all the relevant and appropriate person(s) informed on action taken in line with organization's procedures</li> <li>Get help from the appropriate sources in situation that are outside your own authority or ability</li> <li>Document all actions taken to mitigate risks/ emergencies in line with organization procedures and regulatory guidelines</li> </ul> | White/Black board, Markers, computer and projector, trainer's guide, student handbook, |
|         | <p><b>Total Duration</b></p> <p><b>Theory Duration</b> (hh:mm)<br/><b>108:00</b></p> <p><b>Practical Duration</b> (hh:mm)<br/><b>132:00</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>X ray baggage scanner</li> <li>Handheld metal detector/scanner</li> </ul>  |  |

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

*(This syllabus/ curriculum has been approved by Aerospace & Aviation Sector Skill Council)*

## Trainer Prerequisites for Job role: “Airport X Ray Qualified Staff” mapped to Qualification Pack: “AAS/Q4501”

| Sl. No. | Area                               | Details  |
|---------|------------------------------------|--|
| 1       | Description                        | To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “AAS/Q4501”.   |
| 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 & Aviation Sector Skill Council (AASSC) for Job Role: “ <u>Airport X Ray Qualified Staff</u> ” mapped to QP: “AAS/Q4501”. 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 X Ray Qualified Staff</b> |
| <b>Qualification Pack</b>   | <b>: AAS/Q4501</b>                     |
| <b>Sector Skill Council</b> | <b>: Aerospace &amp; 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/N4501<br/>Perform screening of baggages</b>  | PC 1. search carry-on or checked baggage by hand when it is suspected to contain prohibited items such as weapons                                | <b>100</b>       | 14           | 6          | 8                |
|  | PC 2. inspect carry-on items, using x-ray viewing equipment, to determine whether items contain objects that warrant further.                    |                  | 14           | 6          | 8                |
|  | PC 3. inspect cargo to identify potential hazards.   |                  | 14           | 6          | 8                |
|  | PC 4. view images of checked bags and cargo, using remote screening equipment, and alert baggage screeners or handlers to any possible problems. |                  | 15           | 6          | 8                |
|  | PC 5. test baggage for any explosive materials, using equipment such as explosive detection machines or chemical swab systems.                   |                  | 15           | 6          | 8                |
|  | PC 6. locate suspicious bags pictured in printouts sent from remote monitoring areas, and set these bags aside for inspection.                   |                  | 14           | 6          | 8                |
|  | PC 7. confiscate dangerous items and hazardous materials found in opened bags and turn them over to airlines for disposal                        |                  | 14           | 6          | 8                |
|  |  |                  | <b>Total</b> | <b>100</b> | <b>42</b>        |
| <b>2. AAS/N0501<br/>Take action to deal with incidents, accidents and emergencies in the aviation security environment</b> | PC1. comprehend the probability and severity of emergency situations   | <b>100</b>       | 20           | 10         | 10               |
|  | PC2. take action to deal with emergencies, incidents or accidents in line with its organisation's procedures and regulatory guidelines           |                  | 20           | 10         | 10               |
|  | PC 3. make sure the action planned does not increase the risk or threat to oneself and others  |                  | 10           | 5          | 5                |
|  | PC 4. consider the needs of others when taking action  |                  | 10           | 5          | 5                |
|  | PC 5. keep all the relevant and appropriate person(s) informed on action taken in line with organization's procedures                            |                  | 10           | 6          | 4                |
|  | PC 6. get help from the appropriate sources in situation that are outside your own authority or ability  |                  | 20           | 10         | 10               |
|  | PC 7. document all actions taken to mitigate risks/ emergencies in line with organisation procedures and regulatory guidelines                   |                  | 10           | 5          | 5                |
|  | <b>Total</b>   | <b>100</b>       | <b>51</b>    | <b>49</b>  |                  |
|  |  | Marks Allocation |              |            |                  |
| Assessment outcomes  | Assessment Criteria for outcomes   | Total Marks      | Out of       | Theory     | Skills Practical |
| <b>3. AAS/N0502<br/>Follow safety</b>  | PC 1. comprehend the organisation's safety and security policies and procedures  | <b>100</b>       | 10           | 5          | 5                |

|                                |   |              |            |            |            |
|--------------------------------|---|--------------|------------|------------|------------|
| <b>and security procedures</b> | PC 2. comprehend 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. complete all health and safety records are updates and procedures well defined  |              | 5          | 2          | 3          |
|                                |   | <b>Total</b> |            | <b>100</b> | <b>52</b>  |
|                                | Grand Total (Marks)   |              | <b>300</b> | <b>145</b> | <b>155</b> |
|                                | Percentage Weightage (%)  |              |            | <b>48</b>  | <b>52</b>  |