

## SKILLS PROGRAMME DOCUMENT



Skills Programme Title		<b>Store Person Explosives</b>			
NQF Level	4	Credits	19	Duration in days	24
Skills Programme ID		SP-230203			
Skills Programme Status	APPROVED			Start Date	End Date
				07/02/2023	07/02/2028
Last date for enrolment	07/02/2029	Last date for achievement	07/02/2032		

## SKILLS PROGRAMME DETAILS

1.	<b>Title</b>	Store person - Explosive
2.	<b>Sub Title</b>	Magazine Master
3.	<b>NQF Level</b>	NQF level 4
4.	<b>Duration</b>	24 Days
5.	<b>Credits</b>	19 credits
6.	<b>Quality Assuring Body</b>	Quality Council for Trades and Occupations (QCTO)
7.	<b>Skills Programme Rationale</b>	<p>The skills programme is needed to comply with the health and safety aspects in the workplace required by Legislation and as described in the paragraphs below:</p> <p>Explosives regulations to the Explosives Act 26 of 1956 states the following:</p> <p>Section 1.8.1.1 "The licensee of every magazine shall appoint a trustworthy person, acceptable to the Chief Inspector of Explosives, as magazine master, to be solely in charge of the magazine and to be responsible for compliance with these regulations."</p> <p>Section 1.8.1.5 "The magazine master may <b>depute</b> a trustworthy person, who is thoroughly acquainted with the regulations of this chapter and of Chapter 6, to assist him in operating the magazine and such person shall have the same responsibility under these regulations as the magazine master, but the appointment shall not be taken to relieve the magazine master of his personal responsibility under these regulations."</p> <p>The skills programme SP- 220324 Magazine Master is similar.</p> <p>The sectors making use of explosives or that is responsible for the manufacturing, use and related storage of explosives will have access to a skills program to be able to comply with national legislation.</p> <p>Learners that successfully completes the skills programme will be able to identify any risks that can influence the health and safety as well as the security for themselves and the rest of the personnel within the company. It includes safeguarding against probable cause of incidents that include those that will be influenced by the movement and distribution of the explosives.</p> <p>The typical learner will be persons appointed by an employer within the explosives industries sector to assist the Magazine Master or Explosives Manager in the safe storage, transportation, packaging and marking of explosives dangerous goods as well as maintaining health and safety and housekeeping during transportation and storage activities.</p> <p>The skills program does not relate to requirements of any professional registration membership or licensing.</p> <p>Consultation was conducted with the following relevant bodies:</p> <ul style="list-style-type: none"> <li>• South African Police Services (SAPS)</li> <li>• South African National Defence Force (SANDF)</li> <li>• Armaments Corporation of South Africa (Armscor)</li> </ul>

		<ul style="list-style-type: none"> <li>• Enaex Africa</li> <li>• Sasol Dyno Nobel (Pty) Ltd</li> <li>• Alkantpan Test Range</li> <li>• Rheinmetall Denel Munition (RDM)</li> <li>• Nxco Mining Technologies</li> </ul>				
8.	<b>Related registered qualification/s</b>	None				
9.	<b>Purpose</b>	<p>The purpose of this skills programme is to prepare a learner to assist the Magazine Master as a trustworthy person in the safe storage, transportation, packaging and marking of explosives dangerous goods as well as maintaining health and safety and housekeeping during transportation and storage activities.</p> <p><b>Tasks that learners who are competent will be able to know, do and understand:</b></p> <ul style="list-style-type: none"> <li>• Store explosives and related components.</li> <li>• Package and mark explosives for storage or transportation.</li> <li>• Conduct explosive transport inspections.</li> </ul>				
10.	<b>Content</b>	<table border="1"> <thead> <tr> <th><u>Knowledge component</u></th> <th><u>Application component</u></th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> <li>• 900146-000-00-KM-01 Introduction to explosives, NQF Level 4, Cr 4.</li> <li>• 900146-000-00-KM-02 Basic principles of explosive storage NQF Level 4, Cr 5.</li> <li>• 900146-000-00-KM-03 Basic Health and Safety, NQF Level 2, Cr 2.</li> </ul> <p>Total Credits: 11</p> </td> <td> <ul style="list-style-type: none"> <li>• 900146-000-00-PM-01 Transportation of explosives NQF Level 4, Cr 4.</li> <li>• 900146-000-00-PM-02 Storing, packaging and marking of explosives, NQF level 4, 4 credits</li> </ul> <p>Total Credits: 8</p> </td> </tr> </tbody> </table>	<u>Knowledge component</u>	<u>Application component</u>	<ul style="list-style-type: none"> <li>• 900146-000-00-KM-01 Introduction to explosives, NQF Level 4, Cr 4.</li> <li>• 900146-000-00-KM-02 Basic principles of explosive storage NQF Level 4, Cr 5.</li> <li>• 900146-000-00-KM-03 Basic Health and Safety, NQF Level 2, Cr 2.</li> </ul> <p>Total Credits: 11</p>	<ul style="list-style-type: none"> <li>• 900146-000-00-PM-01 Transportation of explosives NQF Level 4, Cr 4.</li> <li>• 900146-000-00-PM-02 Storing, packaging and marking of explosives, NQF level 4, 4 credits</li> </ul> <p>Total Credits: 8</p>
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11.	<b>Minimum entry requirements</b>	<p>NQF level 3 with communication</p> <p><u>Additional requirements</u></p> <ul style="list-style-type: none"> <li>• Police clearance</li> <li>• Employment in industry specific employment</li> </ul>				
12.	<b>Exit Level Outcomes (ELO) and Associated Assessment Criteria (AAC)</b>	<p><b>ELO 1: Demonstrate the ability to transport explosives</b></p> <p><b>Associated Assessment Criteria</b></p> <ul style="list-style-type: none"> <li>• Road and rail requirements are adhered to</li> <li>• National legislation is complied with</li> <li>• Inspections on explosives transport are conducted</li> <li>• Explosives are transported</li> </ul> <p><b>ELO 2: Demonstrate the ability to adhere to health and safety requirements</b></p> <p><b>Associated Assessment Criteria</b></p> <ul style="list-style-type: none"> <li>• Housekeeping principles are adhered to</li> <li>• Fire prevention requirements are identified and met</li> </ul>				

		<ul style="list-style-type: none"> <li>• Maintenance plan is implemented</li> </ul>
13.	<b>Continuous Assessment &amp; Final Supervised Assessment (FISA)</b>	<p><b>Continuous Assessment</b></p> <p>The SDP must ensure that all learners are enrolled with the QCTO at the start of training (within 5 days) in the format required by the QCTO.</p> <p>Continuous assessment is set by the SDP in accordance with the outcomes provided.</p> <p>This may consist of a variety of methods, e.g. practical or written assessments, assignments, projects, demonstrations, presentations or any other form of assessment to assist the learner in the learning process.</p> <p>During training, it is mandatory for formal summative assessments to take place at the end of each module/topic. These results must be formally recorded and be available for monitoring and/or evaluation by the QCTO.</p> <p><b>Final Integrated Supervised Assessment (FISA)</b></p> <p>All learners gain entrance to the Final Integrated Supervised Assessment by successfully completing all formal summative assessments conducted by the SDP.</p> <p>Format of FISA: A practical and written assessment integrating the relevant Exit Level outcomes, with simultaneous verbal assessment of embedded knowledge by the assessor before, during or after the FISA.</p> <p>All FISAs must be supervised, and virtual FISAs must be recorded throughout the assessment.</p> <p>All Exit Level Outcomes must be covered in the FISA. In the FISA, the learner must demonstrate applied knowledge and skills to prove that the competencies of the Skills Programme have been achieved.</p> <p>The FISA may not contain any assessments used in the "Continuous Assessment" process (thus no re-assessment).</p> <p>Special considerations should be made for candidates with special learning needs.</p> <p><b>Standards for Final Integrated Supervised Assessment (FISA):</b></p> <p><b><u>Written Assessment Component</u></b></p> <p>The candidate must demonstrate that they understand basic principles and characteristics of explosives which underline the workplace, the regulatory and environment and the rules that govern the working with explosives by completing a written knowledge assessment.</p> <p><b>Conditions and requirements</b></p> <p>The facilitator / assessor must provide each learner with a venue or access to be able to complete the knowledge assessment.</p> <p>All learner's must be provided the assessment instrument that covers the following:</p>

- The history of explosives
- Types of explosives
- Properties of explosives
- Parameters to evaluate the performance of explosives
- Requirements of explosives storage facilities
- Compliance to national legislation and organisational procedures

Assessment instrument

- Create the relevant front page with all required information, and clear instructions to learners
- Develop the typical questions that would be included in this assessment instrument, for each ELO.

**Required evidence and or performance**

Marking memo/guideline or rubric must include the following:

- Clear instructions to marker/ assessor/ moderators
- Create the guidelines or rubric required for the marking or assessing of the assessment instrument created above

Minimum time allocation must be 2 hours

Pass mark 60%

**Practical Assessment Component**

The candidate must demonstrate that they are able to ensure safe storage, transportation, packaging and marking of explosives while maintaining health and safety plus housekeeping requirements by completing an Explosives storage and Explosives transportation inspection checklist.

**Conditions and requirements**

The facilitator/assessor must provide each learner with a licensed facility where explosives are stored, as well as a loaded explosives vehicle or a shipping container.

All learners must be provided with an explosives storage inspection checklist and an explosives vehicle inspection checklist that will be used as an inspection report that covers the following:

- The basic rules for the storage of explosives
- Explosives storage facility design requirements.
- Licensing requirements for Explosives storage facilities.
- Housekeeping requirements.
- Road and rail transport requirements
- Dangerous goods packaging and markings
- Vehicle markings
- Segregation of load according to compatibility of explosives.
- Safe and secure stowage on vehicle and in shipping containers.
- Transportation documentation.

Inspection checklist

- Create the relevant front page with all required information, and

		<ul style="list-style-type: none"> <li>clear instructions to learners</li> <li>Develop the typical questions/task that would be included in this assessment instrument, for each ELO.</li> </ul> <p><b>Required evidence and or performance</b></p> <p>Marking guideline must include the following:</p> <ul style="list-style-type: none"> <li>Clear instructions to marker/ assessor/ moderators</li> <li>Create the guidelines with statements of skills to be demonstrated, indicating competent or not yet competent</li> <li>Give the assessor instructions of the minimum standard for competency.</li> </ul> <p>Minimum time allocation must be 4 hours</p> <p>Pass mark: Competent</p> <p>Whilst conducting the above practical, strategic, well-timed questions should be asked of the learner to assess embedded knowledge gained during the skills programme, as well as critical thinking and problem-solving skills: for e.g.</p> <ul style="list-style-type: none"> <li>"Why.....?"</li> <li>"What would happen if ...?"</li> <li>"When ..... is done, what would the result be?"</li> <li>"How would you deal with .....?"</li> <li>Etc.</li> </ul> <p>The marking rubric/compliance checklist used to assess these competencies must include a section for the assessor/facilitator used in this session to make a note of competencies shown, (or not shown), as well as the questions that were asked, and a summary of the learner's answers, and state whether these are of the acceptable standard or not.</p> <p>The marking rubric/compliance checklist compiled should contain specific areas marked with an asterisk (*) as compulsory sections in order for the learner to be declared C (Competent). Compulsory sections are when the safety of the candidate or others would be affected if incorrectly completed.</p> <p>Learners who complete this skills programme will accumulate credits towards the relevant full or part qualification. The Credit Accumulation and Transfer (CAT) Policy may apply to these learners.</p> <p><b>Submission of final results</b></p> <p>Final results must be submitted to the QCTO in the required format, within 21 days of the date of the FISA, together with the following:</p> <ul style="list-style-type: none"> <li>Completed QA Verification Report on the FISA (QCTO template: relevant sections). A copy of the final Assessment Instrument used, as well as the marking guideline / rubric.</li> </ul>
14.	<b>Recognition of Prior Learning</b>	<ul style="list-style-type: none"> <li>Learners will gain access to the skills programme through RPL for access as provided for in the QCTO RPL Policy. RPL for access is conducted by accredited education institution, skills development provider or workplace accredited to offer that specific skills programme.</li> </ul>

		<ul style="list-style-type: none"> <li>• Learners who have acquired competencies in skills programme will be credited for such topics through RPL.</li> <li>• RPL for access to the Final Supervised Assessment: Accredited providers and approved workplaces must apply the internal assessment criteria specified in the skills programme document to establish and confirm prior learning and achievement of required competencies for the skills programme.</li> </ul>
15.	<b>Work Opportunities/further learning</b>	<p>Be able to work as an explosive store person in an explosives magazine.</p> <p>Moving up to qualify and register as a magazine master and design and manage an explosive storage facility.</p>
16.	<b>Skills Development Provider Accreditation Requirements</b>	<p><b>Physical Requirements:</b></p> <ul style="list-style-type: none"> <li>• Training/facilitation resources.</li> <li>• Assessment tools/instruments for assessment.</li> <li>• Relevant learning material.</li> <li>• Knowledge modules - Training venue equipped with desks, chairs, data project, computer and visual aids</li> <li>• Practical skills modules – Explosives Magazine with explosives stock, personal protective clothing</li> </ul> <p><b>Human Resource Requirements:</b></p> <ul style="list-style-type: none"> <li>• Face-to-face, recommended facilitator/learner ratio 1 to 25. This may be increased for online training.</li> <li>• Facilitator requirements: <ul style="list-style-type: none"> <li>○ 5 years of experience in an explosives or ammunition magazine management/master or explosives warehousing auditing/quality assurance environment.</li> <li>○ 3 years of facilitation experience</li> </ul> </li> <li>• Assessor requirements <ul style="list-style-type: none"> <li>○ 5 years of experience in an explosives or ammunition magazine management/master or explosives warehousing auditing/quality assurance environment.</li> <li>○ Relevant NQF level 5 assessor training or similar</li> <li>○ 3 years of assessor experience</li> </ul> </li> </ul> <p><b>Legal Requirements:</b></p> <p>All skills development providers must comply with the legal requirements as stipulated in the following acts that pertain to the industry:</p> <ul style="list-style-type: none"> <li>• Occupational Health and Safety Act 85 of 1993</li> <li>• Explosives Act 26 of 1965</li> </ul>

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