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| **NATIONAL CERTIFICATE: OCCUPATIONAL HYGIENE AND SAFETY****ID 79806 LEVEL 3 - CREDITS 144** |
| **LEARNER WORKBOOK****SAQA: 120324****COLLECT AIRBORNE PARTICULATES IN THE ENVIRONMENT USING A HIGH VOLUME GRAVIMETRIC SAMPLER** |

**Learner Information:**

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| **Details** | **Please Complete this Section** |
| Name & Surname: |  |
| Organisation: |  |
| Unit/Dept: |  |
| Facilitator Name: |  |
| Date Started: |  |
| Date of Completion: |  |

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**OVERVIEW**

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| **About the Learner Workbook** | This Learner Exercise Workbook has been designed and developed to evaluate learners’ level of understanding of the **COLLECT AIRBORNE PARTICULATES IN THE ENVIRONMENT USING A HIGH VOLUME GRAVIMETRIC SAMPLER module**. It forms part of a series of Learner Workbooks that have been developed for **NATIONAL CERTIFICATE: OCCUPATIONAL HYGIENE AND SAFETY ID 79806 LEVEL 3 - CREDITS 144** |
| **Purpose**  | The purpose of this Learner Exercise Workbook is to evaluate learners understanding on the specific outcomes and/or assessment criteria of the following SAQA Registered Unit Standards: |
| **US No** | **US Title** | **Level** | **Credits** |
| **120324** | **COLLECT AIRBORNE PARTICULATES IN THE ENVIRONMENT USING A HIGH VOLUME GRAVIMETRIC SAMPLER**  | **2** | **2** |
| **Context** | This assessment represents the Formative Assessment component of the **COLLECT AIRBORNE PARTICULATES IN THE ENVIRONMENT USING A HIGH VOLUME GRAVIMETRIC SAMPLER**module, for the **NATIONAL CERTIFICATE: OCCUPATIONAL HYGIENE AND SAFETY ID 79806 LEVEL 3 - CREDITS 144...**and should be completed in the classroom/training room.  |
| **Resources** | The following are resources needed for this assessment:1. Learner Guide; and
2. Assessment Preparation.
 |
| **Instructions to Facilitators** | Facilitators will be required to:* Explain the completion of the workbook to each learner; and
* Interview the learner on similar questions, should he/she not be able to write.
 |
| **Instructions to Learners** | Learners will be required to:* Complete the workbook as per the instructions;
* Ensure that all questions are completed;
* Ensure that the completion of the workbook is their own work;
* Ensure that all annexure are attached to the workbook and clearly referred to;
 |
| **Assessment Time** | Learners are required to complete this assessment within the allocated time frame of.... hours.  |
| **Total Mark** | This formative assessment carries a total mark of **\_ points**. In order to meet the pass mark, learners are required to achieve a minimum of **80%** of the total marks. |
| **Equipment** | Learners are required to have the following equipment in order to complete this workbook:* Pen and Pencil;
* Ruler; and
* Exam Pad – for additional paper.
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# **GENERAL INFORMATION**

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| **LEARNER DETAILS** |
| **Learner Full Names** |  |
| **Learner ID No.:** |  |
| **Organisation:** |  |
| **Unit/Dept:** |  |
| **Contact Details:** | **Telephone /Cell Numbers:** | **Email Address:** |
|  |  |
| **WORKSHOP DETAILS** |
| **Workshop Venue:** |  |
| **Facilitator Name:** |  |
| **Date Started:** |  |
| **Date Completed:** |  |

# **ASSESSMENT PREPARATION CHECKLIST**

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| **DESCRIPTION** | **YES** | **NO** | **COMMENTS/CONTINGENCY** |
| This assessment is a formative assessment and it is based on the outlined unit standard/s for the **COLLECT AIRBORNE PARTICULATES IN THE ENVIRONMENT USING A HIGH VOLUME GRAVIMETRIC SAMPLER**module. |  |  |  |
| Your assessment evidence for the **COLLECT AIRBORNE PARTICULATES IN THE ENVIRONMENT USING A HIGH VOLUME GRAVIMETRIC SAMPLER** module needs to be submitted on....... (day) of...............(month)...........(year) at the following address/place................................................................ |  |  |  |
| You will be assessed based on the outlined Unit Standards. The assessment activities are linked to specific outcomes/assessment criteria of the outlined Unit Standards. |  |  |  |
| To determine your competence level, the following are the methods to be used for this assessment:1. .....................................................
2. .....................................................
 |  |  |  |
| To be declared competent on **COLLECT AIRBORNE PARTICULATES IN THE ENVIRONMENT USING A HIGH VOLUME GRAVIMETRIC SAMPLER**module (formative assessment), you should have obtained at least 80% of the total mark of this assessment. |  |  |  |
| You will be provided with detailed feedback on your performance of this assessment as follows:1. Written Feedback
2. Verbal Feedback
 |  |  |  |
| Should you be declared “not yet competent” on this assessment, you will be entitled for re-assessment opportunity/ies.  |  |  |  |
| You will be required to re-submit evidence (only for areas) you were declared not yet competent. A date for re-submission will be agreed with the assessor. |  |  |  |
| You will be entitled to lodge an appeal should you not be satisfied with the assessment decision of your assessment. |  |  |  |
| You will be required to provide the assessor feedback on assessment procedure – this is to assist in improving the assessment practices. |  |  |  |
| Your results of assessment and portfolio of evidence information will not be provided to any person without your written consent. |  |  |  |

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| **Learner’s Declaration** |
| I…………………………………………………………………………………………….herewith declare that I am ready for the assessment, that we have reviewed the assessment preparation and plan, I understand the assessment process and I am happy that the assessment will be conducted in a fair manner. |
| **Learner Signature:** | **Date:** | **Facilitator Signature:** | **Date:** |
|  |  |  |  |

**Learning Unit1**

**UNIT STANDARD NUMBER :** 120324

**Collect airborne particulates in the environment using a high volume gravimetric sampler**

**LEVEL ON THE NQF :** 3

**CREDITS :** 3

**FIELD :**  Health Sciences and Social Services

**SUB FIELD :** Preventive Health

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| **PURPOSE:** | Learners found competent in this unit standard will be able to collect particulates in the environment by means of high volume gravimetric sampler. The competency includes explaining the specified requirements pertaining to determining airborne particulates by means of a high volume gravimetric sampler and all the activities associated with collecting airborne particulates.  |
| **LEARNING ASSUMED TO BE IN PLACE:** |
|  Communication at NQF Level 2 Mathematical Literacy at NQF level 2  |

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| **SESSION 1.** **Explain the specified requirements pertaining to determining airborne particulates by means of a high volume gravimetric sampler.** |
| **Learning Outcomes** |
| * A high volume gravimetric sampler is correctly described.
* Airborne particulate mass and concentration is correctly calculated.
* The principle of operation of a high volume gravimetric sampler and its components are correctly explained.
* The importance and of high volume gravimetric sampling and its use is accurately explained.
 |

 **Answer the following question in the space provided below.**

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| **Activity** | **Questions Description** | **Mark** |
| **1** | **Describe a high volume gravimetric sampler** | 10 |

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| **Activity** | **Questions Description** | **Mark** |
| **2** | **Why airborne particle mass is so important?** | 10 |

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| **Activity** | **Questions Description** | **Mark** |
| **3** | **Describe advantages and disadvantages of gravimetric analysis** | 10 |

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| **Activity** | **Questions Description** | **Mark** |
| **4** | **Why Gravimetric is Important?** | 10 |

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| **SESSION 2.** **Prepare sampling equipment.** |
| **Learning Outcomes** |
| * The sampler and calibration equipment is prepared and the importance thereof, explained.
* The sampler is assembled and the importance thereof, explained.
* Defective sampling equipment is dealt with.
* The control data sheet is prepared and its importance explained.
* The required personal protective equipment is obtained, checked for functionality and use in accordance with its design and after use, is stored correctly and the need for all these actions is satisfactorily explained.
* Permission to enter the working place is obtained and the consequences of entering a workplace without obtaining permission are explained.
* Tools and equipment are used according to design and without injury to self and others.
* The work is performed in a manner that fosters teamwork and avoids conflict.
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| **Activity** | **Questions Description** | **Mark** |
| **5** | **Outline how defective sampling equipment is dealt with?** | 10 |

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| **Activity** | **Questions Description** | **Mark** |
| **6** | **Give an explanation of purpose of personal protective equipment** | 10 |

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| **SESSION 3.** **Sample the environment.** |
| **Learning Outcomes** |
| * The sampling position is selected and the importance of selecting the sampling position is explained.
* The position where sampling is to take place is examined and hazards and risks pertaining to health and safety are dealt with appropriately.
* The sampling is conducted and the importance of using the sampler as prescribed is explained.
* The sampling data are recorded and their importance explained.
* The immediate vicinity where measurements are made is continuously assessed for hazards and risks and appropriate action is taken.
* The work is performed in a manner that fosters teamwork and avoids conflict.
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| **Activity** | **Questions Description** | **Mark** |
| **7** | **Demonstrate knowledge in terms of how to sample the environment?** | 10 |

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| **Activity** | **Questions Description** | **Mark** |
| **8** | **List and describe how sampling position is selected and the importance of selecting the sampling position?** | 10 |

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| **SESSION 4.** **Record, evaluate, report and deal with equipment.** |
| **Learning Outcomes** |
| * Sampling data are accurately recorded and compared with the initial recorded information.
* The sampler and accessories are appropriately dealt with according to specified requirements.
* Reports are completed accurately, in the required format, and submitted to designated personnel on time.
* The work is performed in a manner that fosters teamwork and avoids conflict.
* Results are correctly interpreted and appropriate remedial action is recommended.
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| **Activity** | **Questions Description** | **Mark** |
| **9** | **Why would it be important to record data accurately as it is being collected?** | 10 |

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| **Activity** | **Questions Description** | **Mark** |
| **10** | **Discuss the correctly interpreted and appropriate remedial action**  | 10 |

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| **SELF-ASSESSMENT** |

The learner must make use of the following self-evaluation checklist to rate himself against the learning outcomes of this particular training module in establishing the level of mastery of the information.

1. Not able to comply

2. Reasonable compliance (Not acceptable for final evaluation)

3. Able to comply fully

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| **LEARNING OUTCOMES** | **1** | **2** | **3** |
| **1** | Use and analyse computational tools and strategies, and make estimates and approximations |  |  |  |
| **2** | Demonstrate understanding of numbers and relationships among numbers and number systems, and represent numbers in different ways. |  |  |  |

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**Learner Signature Date**

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**Facilitators’ Signature Date**

**ASSESSMENT FEEDBACK REPORT**

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| **FACILITATOR FEEDBACK & REMARKS** |
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| **ASSESSMENT JUDGEMENT** |
| **Learner’s Total Mark: Requirements met** [ ]  **Requirements not met** [ ]  |
| **Action/s required:****By when:** |

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| **LEARNER FEEDBACK & COMMENTS** |
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| **DECLARATION BY THE FACILITATOR** |
| I ……………………………………………............. (Facilitator) hereby certify that I have examined the learner workbook and I am satisfied with the evidence provided by the learner. |

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| **DECLARATION BY LEARNER** |
| I, …………………………………………………………………….declare that I am satisfied that the feedback given to me by the Facilitator was relevant, sufficient and done in a constructive manner. I accept the assessment judgment and have no further questions relating to this particular assessment event. |
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| **Learner Date** | **Facilitator Date** |

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| **DECLARATION BY THE ASSESSOR** |
| I ……………………………………………............. (Assessor) hereby certify that I have examined the learner workbook and I am satisfied with the Facilitator Judgment of this assessment. |
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| **Assessor Date** | **Moderator Date** |