

EQUIPOTENTIAL EARTHING

SHORT DESCRIPTION OF COURSE AND EXPECTED COMPETENCIES

At the end of this module you will be able to:

- Understand and identify the hazards associated with earthing that can exist on substation equipment and overhead lines and why it is necessary to create an equipotential zone
- Correctly apply portable earthing gear in such a way to create an equipotential zone within which work can be safely carried out.
- Identify possible touch and step potential risks at the worksite and to take the necessary corrective action to either eliminate or minimize such risks.

COURSE CONTENT:

Study Unit 1: Introduction to equipotential earthing

Study Unit 2: Procedure for the application of earthing on lines

Study Unit 3: Procedure of the application of earthing in substations

Study Unit 4: Procedure for the use of equipotential footplates

Study Unit 5: Case studies

Study Unit 6: Inspection, maintenance and record keeping

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| DURATION OF COURSE | 2 Days | MINIMUM STUDENTS | 5 |
| EXPECTED PASS MARK | 80% | MAXIMUM STUDENTS | 15 |
| TARGET POPULATION | PERSONS INVOLVED WITH THAT WORK | | |
| UNIT STANDARD | 258938 | CREDITS | 2 |
| NQF LEVEL | 2 | | |

TO ATTEND THE ABOVE COURSE/S THE STUDENT MUST MEET THESE MINIMUM REQUIREMENTS:

1. A MINIMUM OF 3 MONTHS ON JOB EXPOSURE.
2. STUDENTS WILL BRING PEN, PENCIL, RULER AND WRITING PAD TO THE COURSE.
3. STUDENTS MUST BE ON TIME TO START THE COURSE.
4. MUST BE LITERATE IN THE ENGLISH LANGUAGE (MINIMUM LEVEL 3 ABD).

EXAMS/TESTS WILL BE DONE ON: THE MORNING OF THE LAST DAY – COVERING THE WHOLE COURSE.