

DISTRIBUTION POWER SYSTEM PROTECTION

SHORT DESCRIPTION OF COURSE AND EXPECTED COMPETENCIES

Students will, after passing the prescribed exam:

1. Have a clear understanding of the basics pertaining to distribution system protection.
2. Be able to apply the protection principles in their outputs, keeping in mind;
 - 2.1 Safety of persons
 - 2.2 Safety of plant and apparatus
 - 2.3 Continuity of supply to the customer.

COURSE CONTENT:

1. OVERHEAD LINE PROTECTION
2. UNDERGROUND CABLES (INCLUDING OIL FILLED)
3. TRANSFORMERS AND TAP CHANGERS
4. BUSBARS
5. AUXILIARY AND BACK-UP
6. NEUTRALS
7. EARTHING
8. BATTERIES
9. JUNCTION BOXES
10. SENSITIVE EARTH FAULT
11. AUTO RE-CLOSE
12. FUSES
13. PILOTS, SOLKOR, VOICE TxRx
14. CT'S, VT'S BUSHINGS AND LINE TAPS

DURATION OF COURSE	1 Week	MINIMUM STUDENTS	5
EXPECTED PASS MARK	80%	MAXIMUM STUDENTS	15
TARGET POPULATION	AUTHORISED PERSONS AND TRAINEES		

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

1. A MINIMUM OF 3 TO 6 MONTHS ON JOB EXPOSURE TO PLANT AND APPARATUS.
2. STUDENTS MUST BE IN POSSESSION OF, AND UP TO DATE, REGULATION BOOK.
3. STUDENTS WILL BRING PEN, PENCIL, RULER, CALCULATOR AND WRITING PAD TO THE COURSE.
4. STUDENTS MUST BE ON TIME TO START THE COURSE.
5. MUST BE LITERATE IN THE ENGLISH LANGUAGE (MINIMUM LEVEL 3 ABD).