

# RETIC BASIC 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 reticulation system protection.
2. Be able to apply the protection principles in their outputs, keeping in mind;
  - Safety of persons
  - Safety of plant and apparatus
  - Continuity of supply to the customer.

## COURSE CONTENT:

1. OVERLOAD - IDMT
2. INSTANTANEOUS EARTH FAULT AND OVERLOAD
3. NEUTRALS
4. SUSTAINED EARTH FAULT
5. MCB'S
6. HRC FUSES
7. BATTERIES
8. JUNCTION BOXES
9. SENSITIVE EARTH FAULT
10. AUTO RE-CLOSE
11. RE-CLOSER & PMB'S
12. SECTIONALISERS
13. DROP-OUT FUSE LINKS
14. THE USE OF CT'S AND VT'S

<b>DURATION OF COURSE</b>	3 Days	<b>MINIMUM STUDENTS</b>	5
<b>EXPECTED PASS MARK</b>	80%	<b>MAXIMUM STUDENTS</b>	15
<b>TARGET POPULATION</b>	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 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).

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