cooperative governance
Department:
Cooperative Governance
REPUBLIC OF SOUTH AFRICA

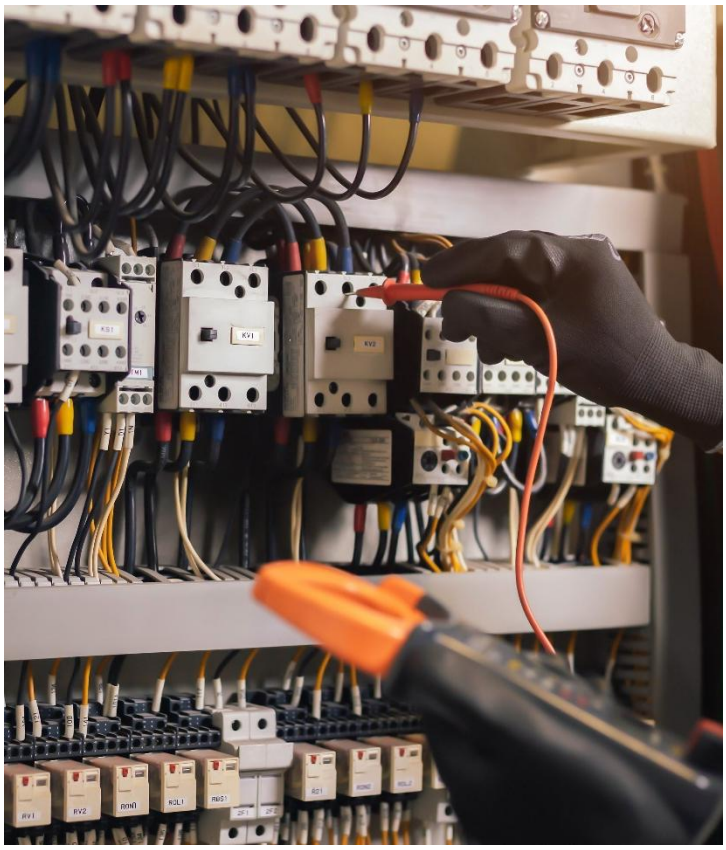
MUNICIPAL INFRASTRUCTURE SUPPORT AGENT (MISA)

MISA
MUNICIPAL INFRASTRUCTURE SUPPORT AGENT
Today, Creating a Better Tomorrow

CPD 2 credits (ECSA)

Electrical Power Systems Protection Workshop

The Municipal Infrastructure Support Agent (MISA) in partnership with SAICE Professional Development & Projects (SAICE-PDP) invites you to attend this 2-day course which provides an in-depth understanding of power systems, and how to protect key electrical equipment within the South African power system.



Attend this course and learn about:

- The SA Power system
- Intelligent electronic devices
- MV and LV switchgear assemblies
- Protection calculations
- Overhead line protection
- Transformer protection
- Equipment and motor protection
- Substation automation
- Protection Coordination and Selectivity
- IEC 61850 Standard
- Testing and commissioning of protection systems

Benefits of attending this course include:

- Participation in an interactive workshop
- Learn from a recognised expert with cross industry experience
- Comprehensive course presentation material

Presenter:

Nompumelelo Bofu Pr Eng, Pr CPM

COURSE SCHEDULE

Venue:
Dates:
Time:

REGISTRATION

To register, visit www.saicepdp.org
For more details contact Nompumelelo Nyaba:
Email nompumelelo@saicepdp.org /
Tel: 011 476 4100

WHO SHOULD ATTEND?

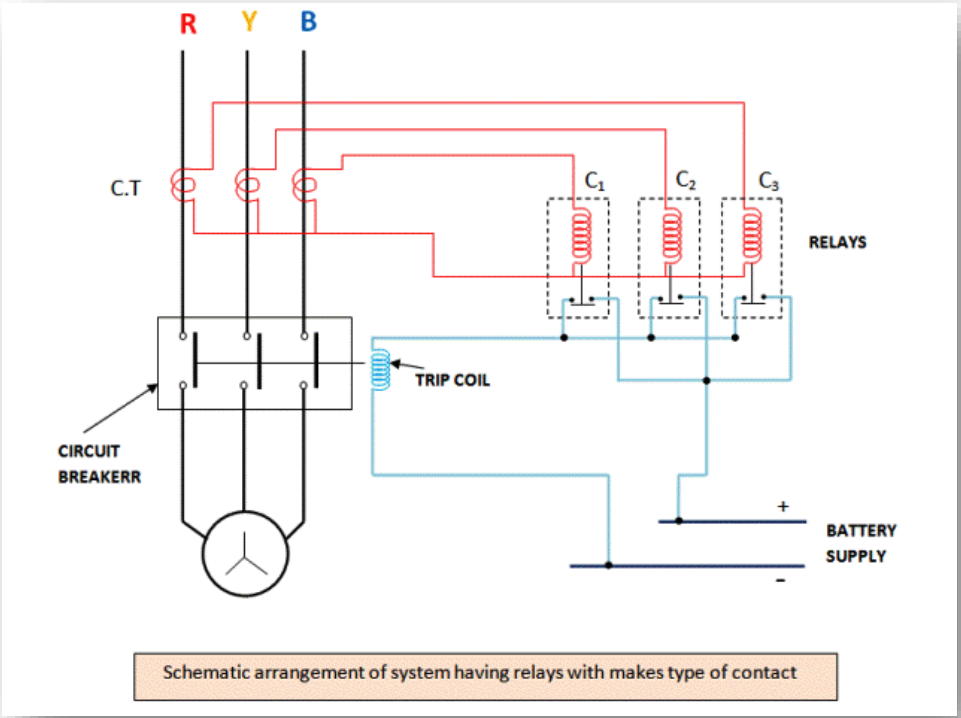
This course is recommended for:

- Protection Application Design Engineers
- Protection Maintenance Engineers
- Testing and commissioning Engineers
- Maintenance Engineers
- SCADA Engineers
- Planning and design Engineers
- Project Managers

COURSE CONTENT

THE COURSE COVERS THE FOLLOWING:

- Power system overview for SAPP
- Power system equipment overview (Power/Distribution transformers, overhead lines, electric motors, generators, cables etc.)
- Protection system fundamentals and protection scheme components
- Introduction to protection application design
- LV and MV line protection scheme overview
- HV line protection scheme overview
- EHV line protection scheme overview
- Introduction to Distance protection and discussion of the different Distance protection schemes
- Protection scheme redundancy concepts
- Transformer protection
- Introduction to LV and MV switchgear and international standards for LV/MV switchgear
- Introduction to Internal Arc Confinement requirements
- LV and MV motor protection
- Cable protection
- Introduction to the IEC 61850 standard and substation automation
- Communication protocols
- Intelligent Electronic Devices (IEDs) and compliance to the IEC 61850 standard
- Introduction to the per unit system
- Introduction to protection coordination and calculation of protection settings
- Protection settings database maintenance
- Auxiliary power supplies for protection schemes
- Project implementation: Role-players and process
- Course conclusion and general discussions



Schematic arrangement of system having relays with makes type of contact

saice professional development & projects
A Non-Profit Company (NPC)

SAICE-PDP's Municipal Academy was established to support practitioners employed in local government with applying theoretical knowledge and relevant legislation in practice.

municipal academy
the road to service delivery

MISA
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MISA's mandate is to provide technical support and advice to municipalities, whilst strengthening their capacity, for effective infrastructure planning, delivery, operations and maintenance.