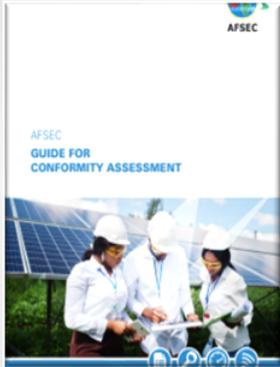


## ● The Guide for Conformity Assessment( BY ACAC)

This guide aims at assisting AFSEC members in supporting the development of an electrotechnical CA strategy in their countries and also support the AfCFTA (TBT) in the field of electrical/ electronic equipment traded in Africa

## ● GUIDE FOR ESTABLISHMENT OF ELECTROTECHNICAL CONFORMANCE TEST LABORATORIES ( BY ACAC)

This document contains requirements for laboratories to enable them to demonstrate they operate competently, and are able to generate trustworthy and valid results aiming to promote confidence in establishing and consistent operation of credible laboratories



Initiative supported by



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**African  
Electrotechnical  
Standardisation  
Commission  
(AFSEC)**

## ● General Description of the Guides Published by AFSEC

The objective of the Guides published by AFSEC is to provide guidance to utilities in Africa in respect of open international standards to ensure interoperability and to allow African utilities and their suppliers to establish an agreed core system architecture and set of functions that will represent an African “companion specification” based on the relevant international standards. The Following Guides were published with the Support of PTB/ DKE and are available in both English and French languages.

### ● TECHNICAL GUIDELINES FOR INTERCONNECTION OF ELECTRICAL GRIDS IN AFRICA ( BY TC8)

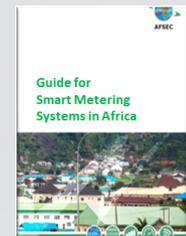
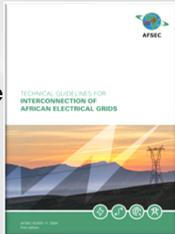
This guide provides high-level technical guidance and the factors to be considered for the planning, operation, and maintenance of interconnected power systems (IPS), between two countries ensuring reliable control at the point of interconnection. focusing on control area operations, outage management, protection systems, and telecommunications

### ● Smart Metering System in AFRICA (BY TC13)

This guide is to provide guidance to utilities in AFRICA in respect of open international standards to ensure interoperability for smart metering system

### ● SMART METERING SYSTEMS – PART 1: PARTICULAR REQUIREMENTS – ELECTRICITY SMART METERS FOR ACTIVE AND REACTIVE ENERGY (A.Q.(BY TC13))

This AFSEC standard defines requirements for electricity smart meters suitable for application in electrification projects in Africa. It primarily references IEC standards relating to physical, functional and communication requirements



## AFSEC GUIDE TO POWER SYSTEMS AUTOMATION STANDARDS (BY TC57 )

It provides guidance to African utilities on how to optimize the use of the power system in the energy market, allowing the equipment and systems to be interoperable, and to interfaces, protocols and data models to be compatible



## The Guideline for Low Voltage Electrical Installations ( BY TC64)

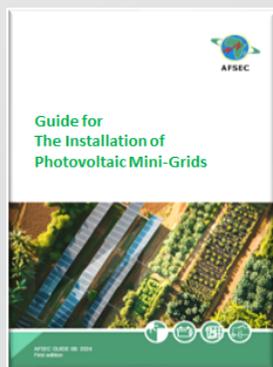
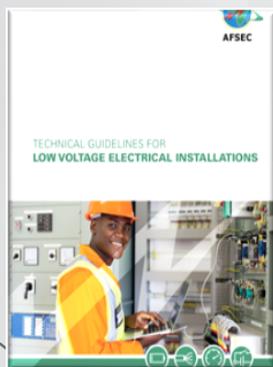
Provides an overview of standards and regulations • suitable for application in Low voltage electrical installations in Africa including Design, Sizing, the choice of equipment, Overvoltage Protection and Uninterruptible Power Supply (UPS)

It also provides Electrical professionals provide electrical technicians, engineers and many others, with a quick reference,immediate-use working tool

## PV-Mini Grid Installation & Inspection ( BY TC64)

The Installation guideline deals with the design and installation requirements for PV power plants

The Inspection guide covers the installation of solar PV systems, engineering site, Equipment, and interconnections requirements



## TECHNICAL GUIDELINES FOR ELECTROMAGNETIC COMPATIBILITY OVERVIEW OF POWER QUALITY (BY TC77 )

This guide provides an overview of power quality from an electromagnetic compatibility perspective and describes important power quality parameters considered and controlled in the power industry with essential reliability parameters



## GUIDANCE ON ELECTROMAGNETIC FIELD EXPOSURE (BY TC77 )

This guide is essential for professionals in power, telecommunications, and renewable energy sectors. It examines the growing risks of electromagnetic field (EMF) exposure from modern electrical and electronic devices, detailing their biological effects on human tissues and potential links to health issues like cancer and fertility

This guide will provide guidelines for protection against these adverse health effects in humans, associated with EMF exposure



## TECHNICAL GUIDELINES TO ELECTROMAGNETIC COMPATIBILITY FOR MEDICAL DEVICES (BY TC77 )

This guide explains the key safety and performance • standards required for medical electrical devices, especially concerning electromagnetic compatibility



## GUIDE FOR APPLICATION OF STANDARDS FOR RURAL ELECTRIFICATION IN AFRICA ( BY TC82)

This guide outlines standards for electrification technologies in rural Africa, covering small to large-scale systems. It provides methodological support for project management, safety, and technical specifications for individual, collective, and hybrid systems, conditions for system acceptance ,operation ,maintenance

