KENVISION TECHNIKS LIMITED

# INTEGRATED FACILITY SECURITY SYSTEMS INSTALLATION COURSE

# INTEGRATED FACILITY SECURITY SYSTEMS INSTALLATION COURSE

## INTRODUCTION

This training is a combination of CCTV Installation Workshop: Installation, Streaming & Maintenance, Access Control and Certified Burglar & Intruder Alarm Installation Course.

Come learn with the experts the technical elements about CCTV- Installation, configuration, streaming and maintenance. This course is designed to give participants a practical knowledge of the **Operation and Installation of CCTV Systems** at a **FOUNDATION LEVEL.**

In the Certified Burglar & Intruder Alarm Installation course, you will learn to install burglar alarms in a simple way. Whether you are an electrician or absolute beginner, it does not matter. We will start from the scratch and make you a confident burglar alarm installer.

The Access Control course will deal with covering site surveying and system design. The course will provide you with the fundamental skills to design, install, operate, repair, maintain and commission fully networked access control systems that are ready to meet the challenges of the modern world.

## Course Objectives

1. To equip the learner with an unrivalled multiskilling in popular facility protection system

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*We create customized Training Solutions for you in:*

- Records Management
- Information Management
- Knowledge Management
- CCTV and Intruder Alarm Installation & Management
- Access control
- Team Building
- Corporate Governance
- Project Management
- Performance Management
- GIS
- Procurement & Supply Chain Management
- Stores & Inventory Management
- **Communication & Reporting**

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2. To give the learner a perspective of functionality of the 3 most popular facility protection systems.

3. To give a rare skill dimension on security integration.

**NB: EACH OF THE THREE AREAS HAS ITS OWN OBJECTIVES**

## I. CCTV Design, Installation & Management

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## CCTV IP CAMERA INSTALLATION & BASIC NETWORKING SKILLS

This course sets out to provide learners with a working knowledge of IP video systems and networks. The course is both practical and theory based. The objective is to provide participants with an in-depth understanding of IP networks and acquire the confidence and expertise to install an IP video system. The course is designed with install and service engineers in mind.

The course provides a solid understanding of IP surveillance architecture covering system design, Implementation over LAN/WAN/VPN, security issues and real life surveillance application. The course details the relationship between IP surveillance system and traditional CCTV system. You will understand the critical factors to consider when designing and setting up a surveillance system. You will be proficient in designing, implementing and maintaining small, medium and enterprise Digital Surveillance system.

Previous computer skills are necessary when taking computer networking classes. Networking skills may be learned in a self-directed or classroom setting. Students taking classes in order to gain more experience or a broader range of skills may need to have their own laptop in order to participate in some of the on-site courses.

**Course Objectives**

1. You will be introduced to various digital concepts like reading and writing of binary numbers, analog to digital conversion and the bandwidth definition and comparison.
2. You will learn about digital networks; terminologies used, types, topologies, protocols including TCP/IP addressing, port forwarding and network architecture.


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3. You will understand the various components used in a network like hubs, switches, gateways and routers.
4. You will learn about the programming of devices, different types of cables used, commands and tools used in troubleshooting

## *PROGRAM*

**Day 1**

- Fundamentals of IP Surveillance Systems
- Video over IP Networks – LAN/WAN/VPN integration
- Architectures/Deployment Types
- IP Surveillance Application
- System Integration/Managements – DVR/NVR

**Day 2**

- IP Surveillance Components
- Software interaction with hardware
- Integration with analogue CCTV system
- Step by Step configuration & Installation techniques
- Video/Audio Compression – Bandwidth Budgeting/Planning
- Storage Consideration

**Day 3**

- Introduction to CCTV installation
- CCTV Video signals (H 264, Mpeg 2)
- Cabling and connectors (CAT5, CAT6 & Coax)
- Crimping BNC, CAT5 & keystone connectors
- Video transmission (analogue to digital, megapixel cameras)
- Assembling a CCTV system Trouble shooting using CCTV tester

**Day 4**

- IP camera installation (IP installer for IP cameras, parameter setting)
- Introduction to lenses and lens theory (Field of view, varifocal and fixed lenses)


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- Digital CCTV storage and lighting (DVR storage calculator, Illumination and camera sensitivity in CCTV)
- PTZ camera installation (Protocols, baud rate in PTZ)
- Installing camera housing for bigger projects with power

**Day 5**

- Network configurations for LANs, WANs
- CCTV site survey
- CCTV and the law
- Mobile phone viewing configuration
- Configuring domain name server (DNS)
- Learning about different types of router
- Projects documentation

Successful completion of the course leads to a certificate in CCTV Installation and Maintenance.

- Unique opportunity to complete the **Closed Circuit Television (CCTV) training course** in just **5 Days**
- The **CCTV IP & Basic Networking Skills** modules covering **Internet Protocol (IP) Cameras and Network Video Recorders (NVR)**
- Our **training courses** are hands on and **practical**
- Our trainers are the best in the industry with vast experience and **qualifications**
- Our Information lines are open for convenience from 8.30 am to 9.00 pm Mon-Sun
- Our **courses** are interactive, practical and informative giving you the best mix


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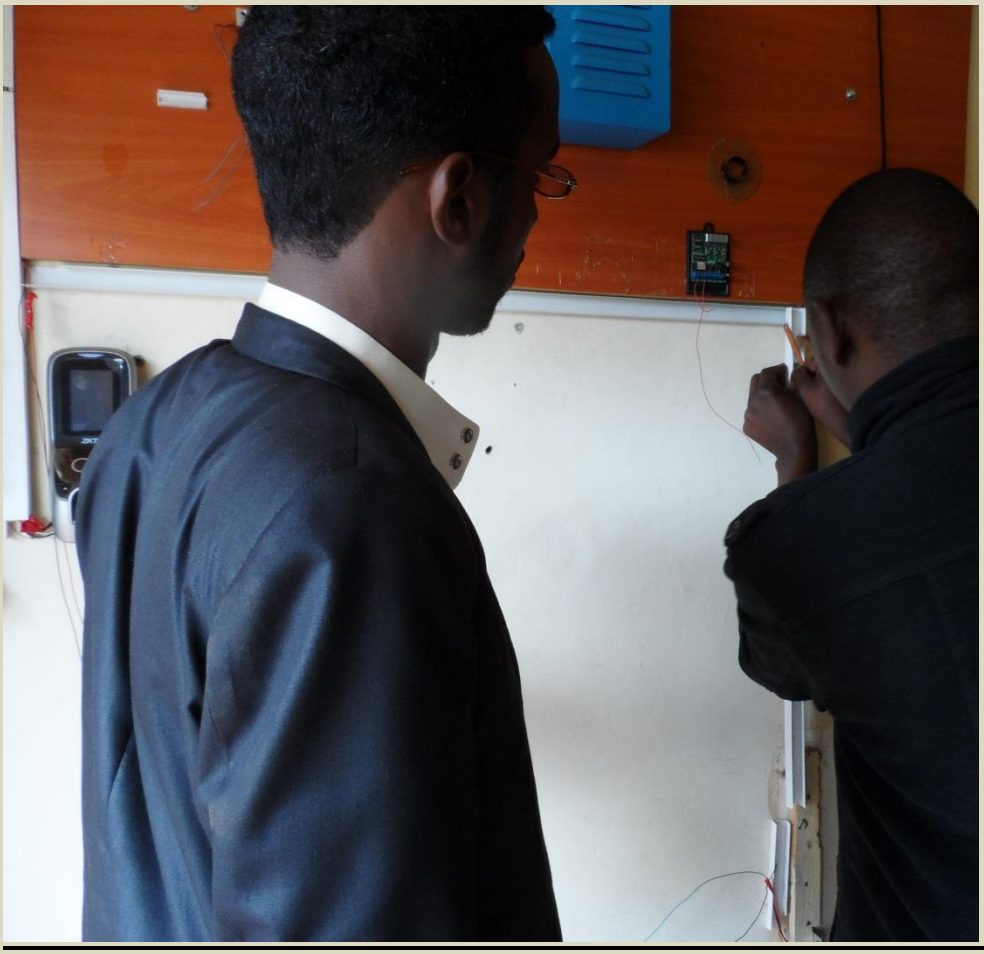
- Our **training course** delivery helps you learn from other participants through team work
- We work with small class sizes - average class **5 students** in all our sessions.
- Our **training courses** provide you with **practical** skills to complete the **installation** of any **system.**

# INTEGRATED FACILITY SECURITY SYSTEMS INSTALLATION COURSE

## II Access Control Hands-On Training Program



## Access Control- I

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*This popular course offers a perfect mix of classroom study and*

*'hands on' practical workshop activities, giving you a deep insight into access control from the installers perspective.*

***Pre-conditions:*** *This course requires no prior knowledge in Access Control*

*Covering site surveying and system design, the course will provide you with the fundamental skills to design, install, operate, repair, maintain and commission fully networked access control systems that are ready to meet the challenges of the modern world.*

This course will give you the confidence to evaluate, install and troubleshoot an access control system . You'll learn the correct information to gather prior to install. A detailed, step-by-step walk through of the installation will allow you to see all the different scenarios and how to make the correct choices to ensure success.

The graduates of this course will also be equipped to evaluate and

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troubleshoot the various access control software by using log files, reports and performance counters. A good understanding of the computer and network environments is crucial when installing software.

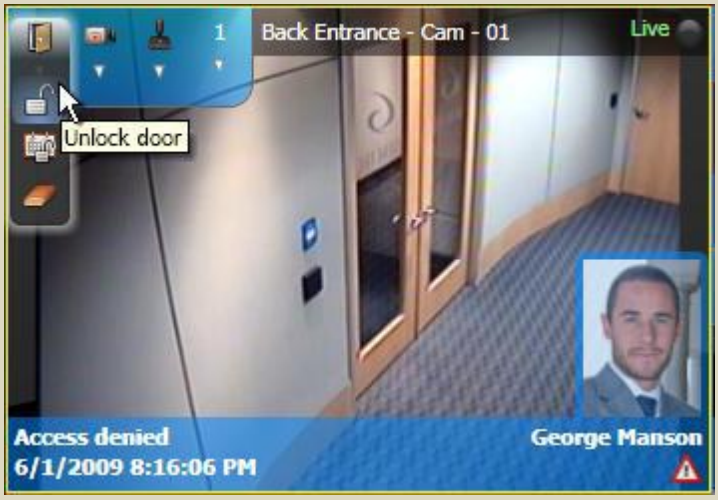
## Aim:

This practically based course is designed to:

- Give participants a practical knowledge of the operation and installation of Access Control Systems at a foundation level.
- Introduce you to the real world of access control system installation, maintenance and repair.
- Enable you (those already in the field) gain the confidence to work in tills vibrant and fast growing sector.

## How You will Benfit

1. Understand the fundamental elements that make up an Access Control System.
2. Fit the principal components of a stand-alone system and networked systems.




3. Connect and programme a card, keypad and proximity stand alone system.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4. Effectively connect up, test and fault-find system elements.
5. Be aware of the issues associated with Access Control Systems.
6. Have an awareness of the changing technology and it's impact on the industry

## What you will learn

- How to conduct a site survey to the requirements of the
- How to select correct power supplies and electronic components with appropriate test equipment
- How to install door entry systems
- How to install stand alone access control systems
- How to select locks
- How to programme access control software
- How to install networked access control systems
- How to select and adjust door furniture
- How to install control equipment
- How to select appropriate use of card tokens and keypad identification methods
- How to design a system and prepare specification

*Learn* to *Earn' in the growing world* of *access control systems* on *this interactive course*

## Course Content

- Associations, standards, inspectorates and documentation
- Mechanical and electromagnetic locks
- Electric strikes and releases
- Identification, tokens and readers
- Power supplies and sensors
- Card based ID system, controllers and systems
- Location of sensors


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- Frequency of use and operation, locations and sensors
- Fitting devices onto framed constructions
- Single and multi door systems and closures
- Methods and types of cables to use in various environments
- Risk assessment
- Practical on site surveys
- Planning and design of system
- Maintenance agreements
- Knowledge possession
- Code identification systems
- Non-contact identification methods
- Networking access control systems
- Fault finding techniques


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## Sessions

**This course has 12 sessions which will be covered in four days. The sessions are so designed to ensure that the above areas are covered satisfactorily.**

## TRAINING SESSIONS

**1. Life Safety Rules / Regulations / Codes (2 sessions):** Review of the code fundamentals that dominate system designs and specification.

- Designing an Access Control System
- Understanding the Codes behind EAC
- Door Hardware Grades Explained
- Authorities Having Jurisdiction
- Selecting the Right Type of Electric Lock

**2. Doors / Locking Hardware (1session):** Examination of EAC electrified locking components of door hardware.

- How Doors Impact Access Control
- Fail Safe vs. Fail Secure
- Maglock Selection
- Electric Strike Selection
- Electrified Hardware for Glass Doors
- Turnstiles & Security Gates

**3. Readers and Controllers (2 sessions):** *Biometrics/Advanced Credentials. To be covered in these sessions are the function of reader and*


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*door controller types, how they are best used, and how they integrate into network/power utility.*

- How to Select the Right Reader
- IP Readers vs. Control Panels
- Multi-Factor Authentication Primer
- Fingerprints
- Palm Vein/Face Recognition
- Heartbeat
- NFC
- Combo Readers/Controllers Tutorial
- Proximity Readers Tutorial
- Keypad Tutorial

**4. Credentials (1 session):** *the theme of this topic is to review the major types used in EAC systems, including emerging types like NFC.*

- Multi-Factor Authentication Primer
- Access Credential Form Factor Tutorial
- Proximity Card Vulnerabilities
- iClass vs. Prox Explained

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**Access Control Management Software**

## Life Safety and Doors

General overview of the code fundamentals that dominate system designs and specification.

- Life Safety Codes
- ADA/Accessibility
- International

- UL 294
- Fail Safe vs. Fail Secure
- AHJs / Authority Having Jurisdiction Tutorial
- How Doors Impact Access Control
- Door Hardware Grades Explained
- Specifying Door Locks

**5. Networking (1 session):** Review of wired/wireless connectivity, and the role of cabling types.

- Access Control Cabling Examined
- Wireless Access Primer

**6. Site Surveys (1 session):** How to properly evaluate a facility for installation of an EAC system.

- The Passback Problem
- Combating the Door Prop Problem
- Access Control Killer: Tailgating
- How Much RTE is enough?

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**7. Upgrading / Migrating Systems (1 session)**: What happens when the end-user wants to change or migrate to a different system? This session covers the scope of that task.

- Replacing Access Control Systems
- Hidden Costs of Access: The Database

**8. Access Control Management Software (1 session):** Overview of the different parts of a typical management system, general function of each, how they interoperate, and the resulting impacts to the end-user.

- Access Control Management Software Guide

An overview of 'power features' that are often forgotten or are emerging as "difference makers"

- Time & Attendance Tutorial
- Integrated Video with Access Overview
- Access Control Levels and Schedules
- Alerting Against Unlocked Doors
- Maintaining Access Control Records
- Mustering

**9. Biometrics/Advanced Credentials (1 session):** A quick look at 'other' credentials, where they are useful, where they are vulnerable, and what is hype.

- Fingerprints
- Palm Vein/Face Recognition
- Heartbeat



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- NFC vs. Bluetooth (Mobile Credentials)

# Fact File

## Who should attend?

- This course has no prerequisites and is aimed specifically, though not exclusively, at those wishing to change their careers.
- Those already in the Security industry and need to specialize in Access Control systems

Those who have been carrying out access control installations but require certifications in the area to prove their abilities.

*This popular course offers a perfect mix of classroom study and 'hands on' practical workshop activities, giving you a deep insight into access control from the installers perspective.*

## Pre-conditions

*This course requires no prior knowledge in Access Control*

*Covering site surveying and system design, the course will provide you with the fundamental skills to design, install, operate, repair, maintain and commission fully networked access control systems that are ready to meet the challenges of the modern world.*

This course will give you the confidence to evaluate, install and troubleshoot an access control system. You'll learn the correct information to gather prior to install. A detailed, step-by-step walk

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through of the installation will allow you to see all the different scenarios and how to make the correct choices to ensure success.

The graduates of this course will also be equipped to evaluate and troubleshoot the various access control software by using log files, reports and performance counters. A good understanding of the computer and network environments is crucial when installing software.

## How you will benefit

1. Understand the fundamental elements that make up an Access Control System.
2. Fit the principal components of a stand-alone system and networked systems.
3. Connect and programme a card, keypad and proximity stand-alone system.
4. Effectively connect up, test and fault-find system elements.
5. Be aware of the issues associated with Access Control Systems.
6. Have an awareness of the changing technology and its impact on the industry

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- How to install door entry systems
- How to install standalone access control systems
- How to select locks
- How to programme access control software
- How to install networked access control systems
- How to select and adjust door furniture
- How to install control equipment
- How to select appropriate use of card tokens and keypad identification methods
- How to design a system and prepare specification

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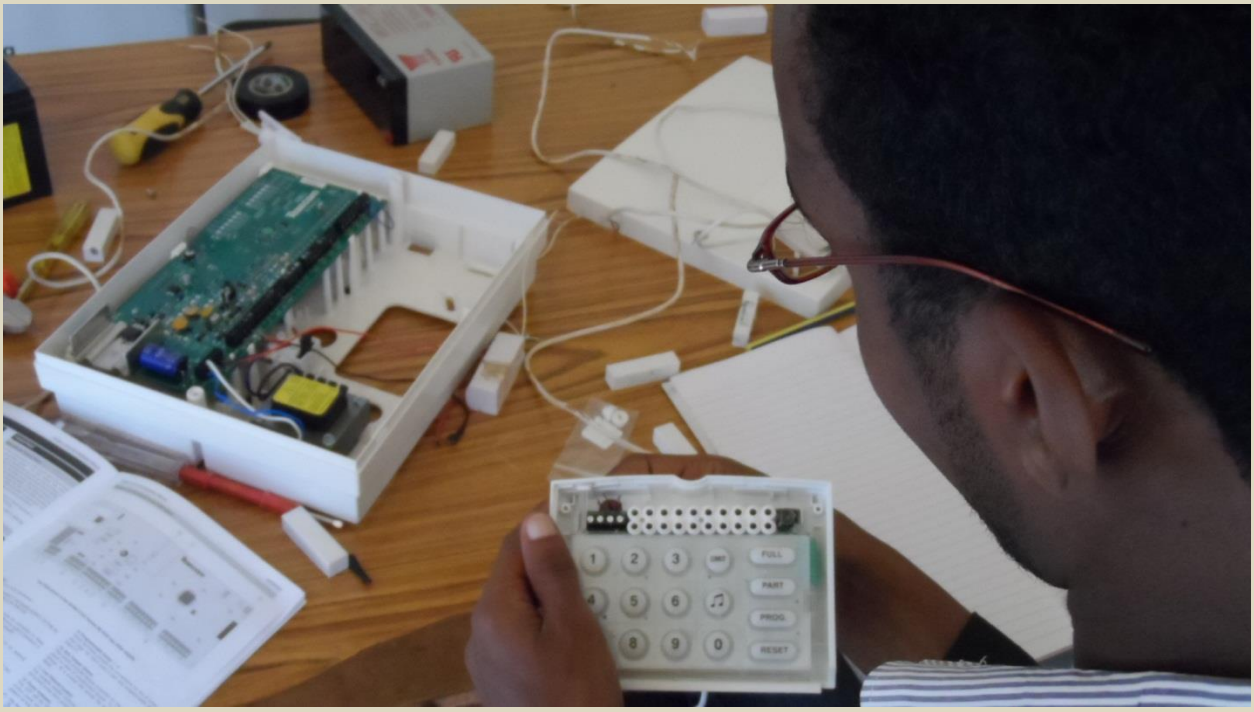
- Those who have been carrying out access control installations but require certifications in the area to prove their abilities.

# III. Certified Burglar and Intruder Alarm Installer



## Alarm Installation Course

Learn to install burglar alarms in a simple way. Whether you are an electrician or absolute beginner, it does not matter. We will start from the scratch and make you a confident burglar alarm installer.

Become an alarm installer; join our popular alarm installation course!

Newspapers, magazines, and the evening news – all these mediums shout out loud that our cities suffer from crimes, especially crimes against properties.

Although criminals become more and more sophisticated, most of the intruders are petty thieves: they sneak into homes and perimeters and steal whatever they find at hand.

But, how do these petty thieves manage to do that? Well, the answer is easy:

**Owners are not prepared for this situation**

They simply do not apply any alarm systems that may deter intruders. They only hope to avoid such a frustrating incident. And bitter too. Surveys show that most families can no longer regain their peace of mind after being burglarized. They suffer from a nagging feeling that their privacy has been stolen. A lot of families simply move out never looking back but the fear remains: what if it happens again?

**You can deliver peace of mind**

If you are an experienced electrician, now you can help by offering a special service: installing burglar and intruder alarms.

Most business owners and even families need to have an intelligent intruder alarm system installed. As an electrician, you can offer them your expertise in an upgraded package of services or in a stand-alone service.

Whichever way you choose, you create a win-win situation: you have brought more peace to your customer and have created a new source of income for yourself.

How can you learn Burglar Alarm Installation? Is there any course for Alarm Installation?

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# Burglar / Intruder Alarm Installation Course Content:

This course is designed to equip you with the insights of Burglar Alarm Installation & Maintenance.

We provide a fully up-to-date guide to the specification, systems design, integration, installation and maintenance of intruder alarm systems.

**Who is this course for?**

This short course is most suitable for those with electrical installation experience or strong desire to pursue a career in alarm installation.

The course is designed to give you the ability and skills to design and install a domestic burglar alarm.

It also arms you with the knowledge of the current practices, testing and commissioning of the installation.

**COURSE DETAILS**

## Alarm Installation Course Content:

- Introduction to Alarm Installation
- Role of alarm industry governing bodies
- British and European standards
- How to read resistor values in alarm installation
- Ohm theory – how does current works in alarm system installation
- Intruder Alarm System Circuitry



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- Information Management
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- CCTV and Intruder Alarm Installation & Management
- Access control
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- Project Management
- Performance Management
- GIS
- Procurement & Supply Chain Management
- Stores & Inventory Management
- **Communication & Reporting**

Please contact us for more detailed information and registration:

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Landline: +254 20 529 5138

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ken_trainers@kenvisiontechniks.com

Website
www.kenvisiontechniks.com

- Double pole wiring and End of Line wiring in Alarm panel –
  - Wiring sensor using double pole and end of line wiring methods
  - Understanding different grades
- Intruder Alarm Detection Devices
  - Passive infrared sensors
  - Panic alarms
  - Door contacts
  - Glass breakers
  - Smoke detectors
- Power supplies
  - Battery calculation
  - Reading current Amp
  - Backup battery calculation
- Intruder Alarm Control equipment's
- Signaling systems and Confirmed Alarms
  - Trigger heads
  - Connecting a speech dialer
- Commissioning and fault finding
- Intruder Alarm panel programming and user training
- Maintenance & Fault location
- Relevant paper works
- Health and safety

*Successful completion of the course leads to a **Certificate of Proficiency in Burglar / Intruder Alarm Installation**.*

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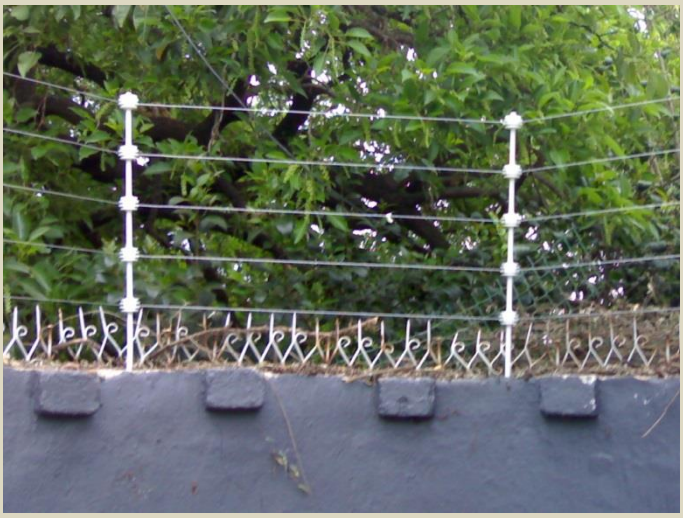

# Electric Fence Practitioner Installation & Maintenance Skills -

**Venue: Kenvision Techniks Workshops**

This unit covers the process of installing and maintaining electric fences in a rural enterprise and defines the standard required to: select the correct tools and equipment; apply appropriate methods to install and maintain electric fences; erect fences to contour; safely install components without damage; dismantle and transport fences.

## Course Objectives

**By the end of this course, the trainee is expected be able to ensure that**

### *1. Prepare for fencing operations*

a). Tools and materials appropriate to meet job requirements are selected and checked against the work plan.

b). Routine pre-operational checks of tools are carried out and adjustments made according to manufacturers specifications.

c). Faulty or unsafe tools are identified and segregated for repair or replacement according to enterprise requirements.

d). Potential and existing hazards in the workplace are risk assessed and minimised according to Occupational Health and Safety (OHS) and enterprise requirements

### *2. Carry out fencing operations*

a). Suitable personal protective equipment is selected, used and maintained according to OHS and workplace procedures.

b). Dismantling operations are carried out, as required, with a focus on minimising unnecessary damage and recovering all re-useable materials.

c). Repair requirements are identified and carried out according to work plan procedures.

d). Sundry electric fences are erected to contour according to work plan and OHS requirements.

e). Electric fence components are installed neatly according to manufacturer's specifications.

2.6. All work is carried out safely according to OHS and enterprise requirements.

### *3. Complete fencing operation*

a). Post holes are firmly filled to remove potential hazards and minimise environmental impact.

b) Work site is cleared and tidied and all non-reusable materials are disposed of in an environmentally responsible manner.

c). Tools and re-usable materials are transported safely from the work site and stored according to enterprise and manufacturers recommendations.

d). Further identified work or repair requirements are reported according to enterprise requirements

# Required Skills and Knowledge

### Compulsory class day 1:

*Topics covered will be;*

- Electric fencing components;
- Basic electronic and electrical theory;
- Basic electronic and electrical components and equipment;
- Basic electronic and electrical theory as applied to electric fencing;
- Installation configuration, quotation, work plans and administration;
- Completing the Electric Fencing System Certificate of Compliance.

## Compulsory class day 2:

Training will consist of extra topics not required for examination purposes, covering aspects of;

- Earthing systems;

- Overvoltage, electromagnetic interference and ground potential;
- Metrology;
- Communication systems;
- Electric fence circuits, monitoring systems and electrical systems;
- Review of assignments.

## Examination and assessment day 1:

1. Written multiple choice question paper, covering;

- Electric fencing components;
- Basic electronic and electrical theory;
- Basic electronic and electrical components and equipment;
- Basic electronic and electrical theory as applied to electric fencing;
- Installation configuration, quotation, work plans and administration.

2. Practical exam 1 – covering aspects of finding faults on an electric fence.
3. Written multiple choice question paper, covering;

- OHS Act-applicable to electric fencing;
- Completing the Electric Fencing System Certificate of Compliance.

## Examination and assessment day 2:

A practical exam during which the learner has to erect a fully functional replica of an electric fence.

Should the learner be found to be competent, in; the two written exams; the two practical exams; and structured questions, the candidate will be declared competent as an 'Electric Fence System Installer'.

## Tools required for compulsory *classes, practical projects, examinations and assessments:-*

A learner shall be responsible for supplying his or her own hand tools and instruments for this purpose. A short list of which is as follows:-

1. Side cutters and pliers – to be used on electric fencing wire.
2. Small flat screw driver – to be used for tightening wires into connectors.
3. Large flat screw driver – to be used for tightening self-tapping screws.
4. Hack saw – for cutting conduit.
5. Spring – for bending 20mm conduit.
6. Hand held multi meter – capable of measuring resistance, voltage and current, with both DC and AC settings.
7. Hand held volt meter – measuring electric fence high voltage.
8. Hand held soldering iron, with solder.
9. Safety boots and overalls.

## Required skills

- Identify hazards and implement safe work practices
- Minimise environmental impact
- Interpret and apply task instruction
- Complete work efficiently within timeframes
- Maintain physical fitness
- Read and interpret work plans
- Communicate with work team and supervisor
- Calculate and measure fencing wire requirements
- Use interpersonal skills to relate to people from a range of social, cultural and ethnic backgrounds and with a range of physical and mental abilities.

## Required knowledge

- Uses and structures of a range of electric fence types
- Uses and types of standard fencing tools and materials
- Common electric fencing hazards and safety precautions
- Dangers posed by electricity to personnel and livestock
- Difference between portable and mains power
- Ohms legislative requirements
- Relevant codes of practice with regard to protection of the environment

## Overview of assessment

The evidence required to demonstrate competency in this unit must be relevant to workplace operations and satisfy holistically all of the requirements of the performance criteria and required skills and knowledge and include achievement of the following:

- Select the correct tools and equipment
- Apply appropriate methods to install and maintain electric fences
- Erect fences to contour
- Safely install components without damage
- Dismantle and transport fences

# Venue, Fee, and Duration

**Venue :**

**Kenvision Techniks Workshops**

**Fee & Duration**

**3-in- 1 (any 3 skills): KES 38 K**

**Duration: 10 days**

**4- in -1 (Any 4 Skills) – KES 52K**

**Duration: 13 days**