KEVAJOPA TECHNOLOGIES LIMITED

Makes Smarter, Faster and Secure

AUTHORISED HIKVISION DEALER AND TRAINING PARTNER

PROFESSIONAL CERTIFICATE PROGRAMME · SSI-2026

Security Systems Implementation

Install, configure, commission and hand over Hikvision CCTV, access control and alarm systems — on real hardware, with a real fault planted in every module.

DURATION	LEVEL	DELIVERY	FEE
6 weeks part-time or 4-week intensive	**Beginner to** Intermediate	**Face-to-face,** Dar es Salaam	**TZS 380,000** all inclusive

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About Kevajopa Technologies Limited

Kevajopa Technologies Limited is a Tanzanian ICT company registered in Dar es Salaam in February 2024 (Registration No. 172177301), working across ICT solutions, software development, networks and infrastructure, security systems, and training. We are an authorised Hikvision dealer and training partner, and an active supplier on the National e-Procurement System of Tanzania (NeST).

We install security systems for a living. Homes, offices, banks, dispensaries, government buildings — supply, installation, commissioning and the maintenance call three months later when something has stopped working. This programme is built out of that work, and in particular out of the faults we keep being called back to fix.

Why This Programme Exists

There is no shortage of people in Dar es Salaam who can mount a camera and get a picture on a screen. There is a serious shortage of people who can install a system that still works in the rain, still records the night somebody actually needs the footage, and can be handed over with documentation the client can use.

The gap is not knowledge of the products. Hikvision equipment is well documented and the menus are not difficult. The gap is in the discipline around the installation: surveying properly, calculating what the cable and the disk can actually carry, testing under the conditions the system will really face, and commissioning in a way that proves the thing works rather than assuming it.

> **WHAT SEPARATES A WORKING INSTALL FROM A CALLBACK**
>
> Almost every system we are called back to fix passed its test on the day it was installed. The camera had a picture. The NVR showed green. The alarm sounded when it was walk-tested. The test was done in conditions that did not match the conditions the system would live in — and nobody found out until the footage was needed.

Who Should Attend

- Security technicians and installers wanting to work to a professional standard
- IT support staff in banks, offices and institutions who inherit responsibility for the CCTV and door systems
- Electricians and electronics technicians adding security systems to what they offer
- Building managers and facility officers who specify, supervise or accept this work from contractors
- Entrepreneurs starting a security installation business
- Graduates in electronics, telecommunications or IT looking for a practical trade skill

Entry Requirements

- No prior security systems experience is required. The programme starts from fundamentals
- Basic computer literacy — you must be able to use a laptop, a browser and a mobile app
- Physical capability for installation work: working at height on a ladder, pulling cable, using hand and power tools
- A background in electronics, electrical work or IT is an advantage but is not required
- Adequate English or Kiswahili — sessions are delivered in both; documentation and equipment menus are in English

What You Will Be Able To Do

1. Survey a site, read the building, and specify the right camera type, lens and mounting position for each area rather than fitting the same camera everywhere.
2. Calculate a PoE power budget and a cable run, and know before you climb the ladder whether it will hold up.
3. Install, terminate and weatherproof a camera run to a standard that survives a Dar es Salaam rainy season.
4. Configure an NVR or DVR, calculate real retention in days from disk size, channel count and bitrate, and set recording schedules that capture what the client thinks is being captured.
5. Build the network the system runs on: addressing, switching, bandwidth, and secure remote access by app or VPN rather than by opening ports.
6. Export footage in a form that is usable as evidence, and explain to a client what the system can and cannot prove.
7. Install and commission an access-controlled door: lock hardware, controller, reader, exit and emergency release, with the fail-safe or fail-secure decision made deliberately.
8. Enrol users on card, PIN, fingerprint and face terminals, and manage time profiles and access groups.
9. Install an intruder alarm, position detectors for the space rather than for the walk test, and diagnose false alarms.
10. Commission a complete system, produce as-built documentation, train the client, and hand over properly.

How the Programme Is Taught

Roughly a third of the time is instruction. The rest is hands on equipment.

Each module contains one planted fault. Something in the module is built, tested, and passes — and is wrong. It is never announced. Participants test it, satisfy themselves it works, and are then shown the condition under which it fails. Every one of the four is a fault we have been called out to in the field.

> **THE ARGUMENT THE FOUR MODULES ARE MAKING**
>
> Module 1: the camera passes on the bench and drops out on the real cable run. Module 2: the NVR shows every channel green and healthy, and did not record the one event that mattered. Module 3: the fingerprint reader authenticates the right person and opens the wrong door. Module 4: the alarm walk-tests perfectly, because the detector is aimed at the wall it was tested against.
>
> By Module 4 participants say it before the trainer does: everything you tested worked, and you tested it in the wrong conditions.

This is not a classroom device. It is the reason most of our maintenance callouts exist, and a technician who has been caught by it three times in training tends to test differently on site.

The Seven Advertised Topics, and Where They Sit

The course listing on our website sets out seven topics. Each is covered in full, in the module shown.

ADVERTISED TOPIC	MODULE	SESSION
Hikvision IP camera installation and configuration	Module 1	1.1, 1.3
Cable routing and power management	Module 1	1.2
NVR/DVR setup and remote monitoring	Module 2	2.1, 2.3
Network Video Recording and storage	Module 2	2.1, 2.2
Access control systems — card readers and biometrics	Module 3	3.1, 3.2, 3.3
Alarm and intruder detection systems	Module 4	4.1
Preventive maintenance procedures	Module 4	4.2, 4.3

Syllabus

Four modules. The syllabus is identical on both delivery options; only the timetable differs.

MODULE 1

Foundations, Cameras and Physical Installation

Choosing the right equipment for the site, then installing it so that it survives.

- **1.1** Security system fundamentals and the Hikvision range. Surveying a site: reading the building, identifying what actually needs to be seen, and choosing camera type, lens and field of view per position — bullet, dome, turret and PTZ, and why fitting the same camera everywhere is the commonest specification error.
- **1.2** Cable routing and power management: cable types and their real distance limits, PoE budgets and switch selection, containment and routing, weatherproofing at the camera and at the joint, earthing and surge protection.
- **1.3** Practical: build a camera run end to end. Mount, route, terminate, power, and verify the image under the lighting the position will actually have, day and night.

> THE PLANTED FAULT
>
> A camera is tested at the bench, powers up and gives a clean image. Installed on its real run it works for an hour and then drops out intermittently. Nothing was wrong with the camera, the switch or the configuration — and the class finds the cause by measuring rather than by swapping parts.

MODULE 2

Recording, Storage, Networks and Remote Monitoring

Where the footage goes, how long it really lasts, and who can reach it.

- **2.1** NVR and DVR configuration: channels, throughput limits, disk configuration, and retention arithmetic — calculating from channel count, resolution and bitrate how many days of footage the client will genuinely have, which is almost never the number they were told.
- **2.2** Networking for surveillance: IP addressing and subnets, switch selection and bandwidth, separating the camera network, and diagnosing the difference between a camera fault and a network fault.
- **2.3** Remote monitoring: Hik-Connect and mobile apps, user accounts and permissions, secure remote access by VPN or P2P rather than by opening ports to the internet, and exporting footage in a form that remains usable when somebody official asks for it.

> THE PLANTED FAULT
>
> The NVR shows every channel green, disks healthy, no errors, and the client is satisfied. The night of the incident was not recorded. Nothing failed — the class works out what was configured, correctly and deliberately, that made the gap inevitable.

MODULE 3

Access Control and Biometrics

Doors, locks, readers and the people they are meant to admit.

- **3.1** Door hardware: electromagnetic locks, electric strikes, exit buttons, break-glass units and door position sensors. Fail-safe against fail-secure, and what fire safety requires of a door you have just locked.

- **3.2** Controllers and readers: card, PIN, fingerprint and face terminals. Enrolment, user management, access groups, time profiles and anti-passback. What biometrics are reliable at, and what they are not.
- **3.3** Commissioning an access door: wiring the controller, linking events to the CCTV system, testing every entry and exit path including the emergency ones, and documenting the door.

> **THE PLANTED FAULT**
>
> A fingerprint terminal is enrolled and tested. It authenticates the right person, rejects the wrong one, and opens a door — the wrong door. The test everybody ran proved the reader worked, and proved nothing about what it was connected to.

MODULE 4

Alarms, Integration, Commissioning and Handover

Finishing the job: the alarm, the whole system working together, and the handover.

- **4.1** Intruder alarm systems: panels and zones, PIR and magnetic contacts, sirens and strobes, positioning detectors for the room rather than for the test, walk testing, and the common causes of false alarms and what they cost a client in credibility.
- **4.2** Integration and preventive maintenance: linking CCTV, access control and alarm so an event in one is visible in the others. Building a maintenance schedule, diagnosing faults systematically, and the checks that prevent callouts.
- **4.3** Commissioning and handover: as-built documentation, labelling, client training, warranty and support terms. Final practical assessment.

> **THE PLANTED FAULT**
>
> The alarm walk-tests perfectly. Every detector triggers, the siren sounds, the panel logs it. The detector was aimed at the wall the tester walked along, and the room it is supposed to protect is outside its pattern.

Equipment and Facilities

The programme runs on real equipment. Participants install on it, break it, and fix it.

- Hikvision IP and analogue cameras across bullet, dome, turret and PTZ types
- NVR and DVR units with working disks, configured and reconfigured by participants
- PoE switches, cable, connectors, tools and test equipment
- Access control hardware: controllers, card readers, fingerprint and face terminals, electromagnetic locks and strikes, exit buttons, a working door rig
- Intruder alarm panel, PIR detectors, magnetic contacts, sirens
- Kevajopa survey, commissioning and as-built document templates, which participants keep and may use in their own work

Hikvision Showroom Visits

Where they can be arranged, the programme includes visits to the Hikvision showroom, giving participants sight of the wider product range in one place. These visits are subject to Hikvision's availability. Where a visit cannot be arranged, the time reverts to supervised lab work at Kevajopa, with no reduction in content, hours or assessment.

Live Site Exposure

Where a suitable Kevajopa installation is running during the programme and the client agrees, participants attend as observers and assistants. This is offered where it arises and is not guaranteed for any particular intake.

Delivery Options

Same syllabus, same assessment, same certificate, same fee. Choose the pattern that fits your circumstances.

	OPTION A — PART-TIME	OPTION B — INTENSIVE
Duration	6 weeks	4 weeks
Pattern	3 sessions a week, 3 hours each	3 taught sessions a week of 3 hours, plus 2 supervised lab or site days a week
Taught hours	54 hours	36 hours
Supervised lab and site	Within the sessions	36 hours additional
Total structured hours	54 hours	72 hours
Suits	Participants in full-time employment	Full-time trainees and staff released for training

Option B carries more structured hours for the same fee. The additional time is supervised lab and site work, not additional taught content — which is why the two options award the same certificate. Participants who can commit full time get considerably more hands-on repetition, and we recommend Option B to anyone who can take it.

> **INTAKE DATES**
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> We do not publish a fixed calendar. An intake is scheduled once four participants have confirmed, and confirmed participants receive at least ten working days' notice of the start date.

Assessment and Certification

Assessment is practical. Nobody passes this programme on written work alone.

COMPONENT	WEIGHT	WHAT IS MARKED
Continuous practical work	30%	Installation and configuration tasks across all four modules, marked on workmanship as well as function
Documentation portfolio	20%	Site survey, specification, commissioning records and as-built documentation produced during the programme
Final practical assessment	30%	Install, configure, commission and hand over a working system under time constraint
Written examination	20%	Principles, calculation, fault diagnosis and safety

- A Kevajopa Technologies Limited Certificate in Security Systems Implementation is awarded at 60% overall, with a hard floor of 50% on the final practical assessment.
- Minimum 80% attendance is required, recorded per session.
- Participants below the threshold receive a statement of attendance and may re-sit the final practical with a later intake at no additional tuition charge.
- The certificate is a Kevajopa award. Kevajopa is an authorised Hikvision dealer and training partner, and the programme is taught on Hikvision equipment, but the certificate is not a Hikvision certification.

Fees

All figures in Tanzanian Shillings. Kevajopa Technologies Limited is not VAT-registered; no VAT is charged and none should be added.

	AMOUNT (TZS)	NOTES
Registration fee	30,000	One-off, non-refundable, payable with the registration form
Tuition	350,000	Either delivery option
Total per participant	380,000	
Group rate	320,000 each	Tuition, for three or more registering together
Corporate cohort	On request	Deliverable at the client's premises where facilities allow

What the Fee Includes

- All taught sessions and supervised lab time
- Use of all equipment, tools, cable and consumables during the programme
- Course notes, worksheets and the Kevajopa survey, commissioning and handover templates
- All assessment, marking and the certificate
- Refreshments at Kevajopa's Dar es Salaam training premises

What It Does Not Include

- Transport to Hikvision showroom visits or to live client sites
- Personal tools or personal protective equipment, if you wish to use your own
- Any external certification examination fee

Payment

1. Payment in full before the first session.
2. Fifty per cent deposit before the first session, balance by the midpoint of the programme.

- A place is confirmed by the registration fee together with a deposit of at least 50% of tuition.
- Certificates are issued only when the account is settled in full.

- Public entities deduct 2% withholding tax at source in accordance with Tanzanian law; the withholding certificate should be issued to Kevajopa Technologies Limited, TIN 172-177-301.
- Withdrawal before the first session: tuition deposit refunded in full, less the registration fee. After the first session tuition is not refundable, but the place may be transferred to a later intake once.

What This Programme Does Not Cover

Stated plainly so that nobody registers expecting the wrong thing.

- Gate automation and motorised gates — seen and explained at the Hikvision showroom where a visit is arranged, but not installed or commissioned on this programme.
- Video intercom and door entry systems — showroom level only.
- Electric fencing — showroom level only.
- Parking management systems, barriers and number plate recognition — showroom level only.
- Iris recognition terminals.
- Structured cabling certification, fibre splicing and network engineering beyond what the security system itself requires. Our Digital Networking and Telecommunication and Electronics programmes cover those.
- Electrical installation work requiring a licensed electrician.

The four showroom-level subsystems above are the subject of a planned second programme. Nothing in this certificate qualifies a participant to install them.

Registration and Next Steps

1. Request the registration form for SSI-2026 by email or WhatsApp, or collect it from our office.
2. Return the completed form with a copy of your national identification and your highest qualification.
3. Pay the registration fee and your chosen deposit. Bank and mobile money details are issued with the form.
4. You will receive written confirmation, the intake start date once the cohort is confirmed, and joining instructions including what to bring.

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