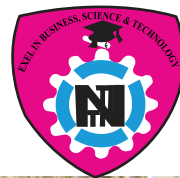




MINISTRY OF EDUCATION  
STATE DEPARTMENT OF VOCATIONAL & TECHNICAL TRAINING

# NAIROBI TECHNICAL TRAINING INSTITUTE



**THE MIRROR**  
**2021 EDITION**



## **VISION STATEMENT**

**Global Leader in  
Technical Training**

## **MISSION STATEMENT**

**To Provide Quality and  
Relevant Vocational  
Education and Training**



ISO 9001 : 2015 Certified

# THE MIRROR

2021 EDITION



NAIROBI TECHNICAL TRAINING INSTITUTE

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Nairobi TTI Football Team 2021



ISO 9001 : 2015 Certified

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**The Nairobi TTI BOG and Members of the Central Administration**

## Word from the Chief Principal

Nairobi Technical Training Institute has recorded several positive gains in the past two years. To start with, the number of trainees enrolled has risen over the years and currently stands at 7,682 trainees. We expect this number to continue rising. The Institute attracts trainees in large numbers due to good academic performance, high discipline and the level of quality training offered in the Institute by the highly competent staff. The increased enrolment has also been as a result of government support for TVET training in the form of financial support for trainees and grants for development of training infrastructure to accommodate the large number of trainees seeking opportunities in TVET institutions.

In support of the “Big Four” Agenda, the Institute continues to introduce courses that are relevant to the government agenda. In the last two years, the Institute has introduced and enrolled trainees in Competence Based Education and Training (CBET) courses. The following courses are the latest additions to the Institute’s training program: Automotive Mechatronics Technician Level 6, Electrical Installation Level 3 and Community Health and Technology Level 6 courses. There are other courses lined up for introduction including Fiber Optics and Networking Level 4 scheduled to commence in November 2021. Those eligible for the course are encouraged to enroll in large numbers.

The Institute is actively engaged in co-curricular activities including sports, drama, and athletics. This is done in line with the guidelines on COVID-19 prevention. This year, the Institute participated in regional and national championships and won several trophies in different categories. In support of Science, Innovation and Technology, the Institute has over the years presented innovations and research papers in both regional and national conferences and have won awards in several categories.

Every year, the Institute signs a Performance Contract with the government in which Key Performance Indicators (KPIs) are established and agreed upon. These KPIs form the basis for



**Glory K. Mutungi**

evaluation and ranking of government entities in each financial year. In the Financial Year 2019/2020, the Institute was ranked position 1 (one) Nationally in the Tertiary Institutions category. I take this opportunity to thank the Nairobi TTI community for working towards this great achievement. We as an institution are still committed to performing even better and to delivering quality services as we have always done.

Nairobi TTI is a great institution to be in. Our motto is “Excel in Business, Science & Technology and I can assure you that we are excelling. I encourage our trainees, graduands, and staff to be our ambassadors and spread the word to both family and friends that Nairobi TTI is the place to be.

To the graduands, you have done Nairobi TTI proud. Congratulations on this great achievement. Go forth and conquer the higher levels of education. You have what it takes, take every opportunity to excel in every aspect. God bless you all.



**Contractor handing over the newly completed tuition block**

## Word from the Deputy Principal-Administration



We take pride in having had the opportunity to nurture the youth in this Institute and prepare them for the job market. This has taken the hard work and commitment of the staff to ensure that the trainees acquire market driven

knowledge and skills in addition to the right attitudes required in the work place.

The Institute's vision is to be the Global Leader in Technical Training. The Institute has lived to the aspirations of this vision by being ranked position one in the Tertiary Institutions category in the Performance Contract for the year 2019/2020 ranking. This is a clear testimony that we are committed to our vision.

We, as an Institute, celebrate the good working relationship that we enjoy with our key stakeholders. I wish to thank all the stakeholders for supporting the Institute and playing a critical role in ensuring that our programs run smoothly to culminate into such a colourful event. We look forward to continue working with you to deliver even better results. As we mark the 10th Graduation Ceremony, I wish to take this in

opportunity to congratulate all the graduands. This marks a critical milestone in your academic life and forms a solid base on which to launch your rocket to achieve your dreams. We take a lot of pride having been part of your story and as you leave us and dive into the job market, we can only wish you the best. Technical Training remains the most precious tool for survival as the world becomes more and more competitive. The knowledge and skills you have acquired will be very instrumental as you navigate the employment landscape. Best wishes to all the graduands.

**Simon Nyaga**  
DP-Administration

## Word From The Deputy Principal Academic

Nairobi Technical Training Institute has played a pivotal role in ensuring accessibility of TVET programmes to majority of the Kenyan youths. This is evidenced by the institute's increased enrollment which is currently at 7,682 trainees.

To ensure quality training, the institute has taken several measures that include integration of ICT in training, construction of additional tuition facilities and installation of state-of-the-art equipment in the workshops and laboratories. This exposes trainees to equipment like that found in the industry which makes them more competitive in the job market.

The Institute has embraced Curriculum Based Education and Training which is geared towards producing competent and innovative graduates. This has seen the Institute being established as a Centre of Excellence in Automotive Mechatronics Technician course which adopts the cooperative training model. We wish to thank our partners in cooperative training and appeal to more companies to join in this groundbreaking training model. The staff and students have been very active in research and innovation making NTTI a hub of innovations aimed at solving the day-to-day problems that face our country. Through innovative activities, NTTI was able to participate in the World Ozone Layer Day at Isiolo. In addition, the Institute participated in KAM exhibitions where the Institute emerged as one of the best under TVET

category. As an Institute, we remain focused and committed to Research & Innovation since the future is driven by innovations.

I am convinced, beyond reasonable doubt, that the graduating class of 2021 is well grounded with knowledge, skills, the right attitudes, and ideas that will meet the needs of the industry and the marketplace at large to propel this great country to greater levels of growth.

To our graduands, it has taken hard work, commitment, and resilience to achieve this major milestone in your academic journey. This is not the end but just a bridge to move you to the next level in the education journey. Strive to be the best, soar for greater heights, self-actualize and be the best that you can be in the academic landscape. Congratulations for this major achievement and best wishes as you venture out into the world of work.

**Purity Mutea**  
DP-Academic



## Word from the Dean of Students.

On behalf of Nairobi Technical Training Institute, the office of the Dean of Students wishes to congratulate all the 2021 graduands. Through hard work, dedication and focus, you have made it to this day.

As a link between the trainees' body and the Administration, the Office of the Dean coordinates co-curricular activities in the institute. These include: Music, Drama, Games, Clubs and Societies. The office continually works towards meeting and sustaining the welfare of trainees and has a strong Guidance and Counselling unit with qualified counsellors and is open to all members of the institute. In addition to counselling, different speakers are invited to pray and speak to the trainees on topical issues of concern to the youth.

As an office that interacts with all the trainees, we realize the need to have a cohesive community in the institute. Towards this, the office organizes and coordinates regular cultural days in which the trainees showcase different cultures represented in the institute. In addition to building a cohesive community in the institute, this activity contributes towards promotion of national cohesion and national values.

All trainees in the institute are entitled to HELB loans and the office of the Dean is at the centre in helping the trainees through the application process. In addition, the office assists in the application of fees assistance from Constituency Development Funds (CDF) and Bursaries from other organizations.

We wish our graduands all the best as they join the workforce to build this great nation.

**Roselida Oundo - Dean of Students**



## Word from the Registrar

Nairobi Technical Training Institute has once again made a mark in celebrating its 10th graduation Ceremony in the midst of the challenges of covid 19 pandemic. This is a great occasion for the graduands, as well as their relatives, friends and well-wishers. The graduands have been equipped with essential Skills and competencies and I believe that they are not only competent but also globally competitive.

I wish to appreciate the Staff and all those who have made it possible for the graduands to complete their studies successfully.

I urge the graduands to continue their search for more knowledge beyond this graduation ceremony because Learning is a lifelong process.

The Office of the Registrar is committed to introducing courses that are market driven and Competency Based in an effort to meet the needs of the competitive job market.

To the graduands, the ball is in your court, you now possess employable skills and attitudes to build this great nation. I wish you well in all your endeavors.

**CONGRATULATIONS!**

**Elias Obure - Registrar**

## Word from the Finance Officer.



The Finance Department is the central arm of the Institute's Administration, responsible for managing Finances and implementing financial policies as per the Public Management Act (2015). The department has five highly qualified committed staff dedicated to service delivery with feet dipped in the basin of integrity. The department's mission is to provide and promote efficiency, transparency, and accountability of financial resources which are received and spent by the institution, it reports to the Board of Management. The integration of the student payment with the bank enables real-time receiving and posting to the student accounts, details. Services at the department have been automated, such as Information Technology in document tracking, revenue

receipting, payment, and banking has been automated for smooth operations. Despite the challenges brought about by the Covid-19 pandemic, the department has continued to meet its mandate efficiently. The department has welcomed the internal audit section to verify documents before processing payments to increase efficiency.

The department prides itself in the complete elimination of cash operations and fully embracing an online payment system. Significant reforms are underway in the operation of both receipting, payment, and reporting functions.

The Institute continues to address the challenges of reduced capitation by enhancing revenue collection and appeals to the government for more support to bridge the gap.

We welcome all students and other stakeholders to visit our department.

## INDUSTRIAL LIAISON OFFICE GUIDELINES TO SECURING INDUSTRIAL ATTACHMENT

Industrial attachment is compulsory and a vital component of training in Technical Training Institutions at all levels.

All trainees undertaking courses in TVET institutions are required to undertake Industrial Attachment during the course of their training. All courses require the trainees to be attached in the relevant Companies, Organizations or Firms for a period of (3) months and (6) six months for the medical courses as per the requirements of other bodies which also examine and regulate the trainee.

The following guidelines and tips will help when looking for attachment opportunities.

### 1. Start early

The problem that faces many trainees is the "last minute syndrome". Trainees should start attachment applications very early in the term and scout for organizations that would add value to their area of study. They should shortlist the companies they are sure of and send in the applications 2 or 3 months prior because most organizations offer attachment opportunities on a first come first serve basis.

### 2. Big is not always better

The assumption that the big organizations will offer the best learning experience is a misconception. Do not overlook the small ones where one can get a one-on-one interaction with the supervisors and a greater learning experience compared to the larger firms. Go for the experience, not the name.

### 3. Never look at the allowances

Trainees often apply in droves to firms that offer allowances/ stipends for their trainees. Most do not offer any allowances but the learning resources and experience trainees get out of it is worth much more. Focus should be on creating connections and rapport with the professionals there not forgetting the work experience gained.



**CLEMENT AMUKHUMA**  
FINANCE OFFICER

#### 4. Deliver your application in person

Unless the organization requires online industrial attachment applications, trainees should take their application letters personally and deliver them in person. Take time on personal grooming as well. Request to talk to the person in charge of the department where you are applying to instead of just leaving the application with the secretary.

#### 5. Network

This is very important. Learn to network and create connections. Attend all events however boring they may be, they are the best places to meet professionals in the same field of study. In addition, joining clubs, societies and organizations which can help you develop professionally while offering great networking opportunities is key.

Best wishes as you look for the next attachment opportunity.

**Jane Mwangi**

**Industrial Liaison Officer**

## ICT DEPARTMENT.

The department began offering ICDL in June 2021 after Nairobi Technical Training Institute became an Accredited Test Center (ATS) of ICDL foundation.

ICDL stands for International Certification for Digital Literacy. It is the world's leading computer skills certification body. ICDL computer Skills Certification is gazetted in Kenya and is accredited by TVET Authority in Kenya

The department offers the ICDL Workforce Programme that is designed to build the critical digital skills of the modern workplace. ICDL Workforce is a tiered programme that will help employees with effective use of technology.

It starts with the Essential Skills modules that are important for many other ICDL programmes. The Office Applications modules develop skills that are commonly used in working life. Complementing these skills are the Good Practice modules, which ensure safe, legal and productive use of technology in the workplace. It is composed of the following modules:

- Computer Essentials
- Word Processing
- Presentation
- Online Collaboration
- Online Essentials
- Spreadsheets
- Using Databases
- T Security

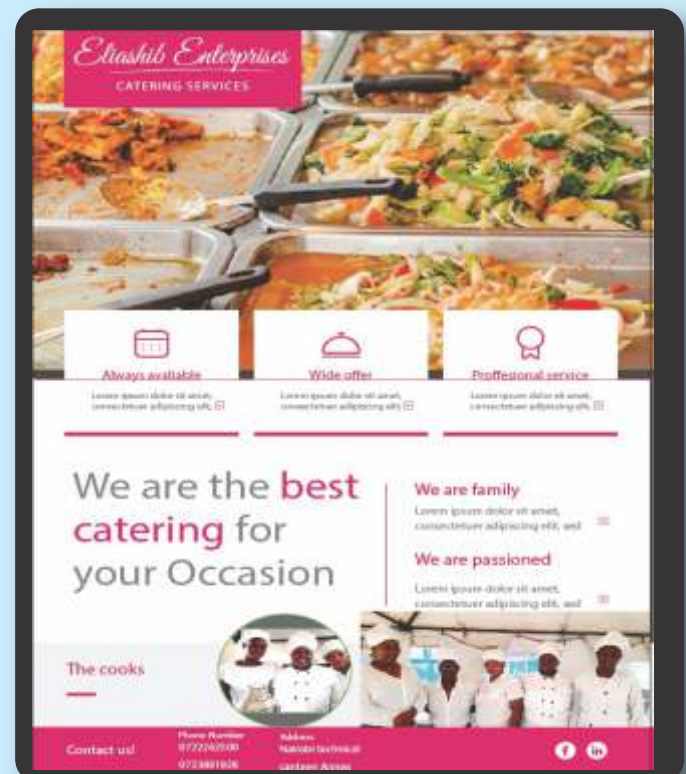
ICDL is an online examined certification and may be done by the following:

- New entrants into the IT field
- Students pursuing any course
- Corporate individuals who may need computer skills for the execution of their tasks
- Students who have done other computer packages

#### Entry Qualifications

The course is eligible to anyone with KCSE qualification.

**Mr. Wang'ang'a , HOD ICT**





# THE NEXT DECADE AUTO MECHATRONICS MECHANIC



## MR. LULE HOD Automotive

As technology advances, consumers expect fast, efficient and high quality maintenance. The modern auto mechanic needs to be aware of what is changing in the industry and the advancement in the vehicle technology. The largest technological advancement in the automotive industry is the integration of mechanical, electrical and telecommunication in the design of vehicles. These advancement have impacted the future of the automotive repair industry in many different ways.

The department of Automotive Engineering has positioned itself to the changes in the evolution technologies. Through the sponsorship of the government of Kenya and the Germany chambers of commerce spearheaded by GIZ and KFW, the department launched the automotive mechatronics course geared to produce competent mechanics to cope with these changing trends.

Automotive Mechatronics course is directed by an Industrial Steering Committee comprising senior engineers from the automotive sector. This maintains course relevancy and ensures that graduates are equipped with the skills and knowledge required by the changing technology and industry requirements. The course is delivered on 50% industry training and 50% training at Nairobi Technical Training Institute. Trainees who enroll to this course are vetted by the industry of choice which offers the mentorship. Currently, the following industries are partnering in training of the mechatronics course: DT Dobie, Simba Cooperation, Stantech Motors, Farmers Choice Ltd, CMC Motors, Daivin Motors, Plateau Motors and Top Quality Motors. The training curriculum for this course is based on Competency Based Education and Training (CBET).

The department offers driving courses as a value addition to its grandaunts to address the needs of the next decade automotive mechanic. The driving school gives opportunity to the trainees within the department to acquire driving skills which is an added advantage in the job market. However it is also open for all the trainees and workers within the institute to register and equally get the driving skills

## ENTREPRENEURSHIP DEPARTMENT

The department's core function is to coordinate the training of entrepreneurship skills across the other skill areas. This is meant to make the trainees have a broad application of their skills. Ultimately, it is intended to add to the pool of job creators rather than job seekers and more so, create employment for themselves by combining their trade area with entrepreneurial skills.

The department is now proud to have made great milestones in the sense that it will present Diploma graduands for the first time. This is after mounting two courses in the areas of Entrepreneurship Development and in Project Management. Trainees in the two areas will face the vast business enterprises particularly the small and medium enterprises (SMEs) which are estimated to comprise seventy percent of the commercial enterprises in Kenya, a case that is reported in similar proportions in majority of the countries in the world. Project management trainees will also contribute to the pool of competent professionals. It is noteworthy that in practice, project managers have been drawn from other professions but the difference with the quality of graduates in this area is that they are more competent to execute the various phases of projects management as a speciality. It is the Departments pride to have contributed to the very specialized skills and we look forward to linkages with the industries with the aim of getting feedback in the areas that can be incorporated to equip the trainees better for their needs. Congratulations to our graduands.

**Daniel Thiga**

## *Are You On The Right* **CAREER PATH ?**

Every term when the institute admits new trainees, a good number request to switch courses in the middle of the term. This is because the trainees either chose the wrong course or found the going too rough in the units being undertaken. Worry no more!

The Administration has create the Office of Career Services in the Institute. This office will be under the Guidance and Counseling Department with specific trainers identified to assist both new and on-going trainees cope with career choices right from the beginning all the way to completion of the course.

Parents and new trainees are welcome to our offices throughout the year as they visit the Registry to enquire on the new admissions in the nine Academic Departments namely:

- i) Institutional Management**
- ii) Mechanical & Chemical Engineering**
- iii) Electrical & Electronics Engineering**
- iv) Automotive Engineering**
- v) Information Communication Technology**
- vi) Health & Applied Sciences**
- vii) Liberal Studies**
- viii) Entrepreneurship Education**
- ix) Business Studies**

The Career Officers from each department will offer advice on every aspect of the courses. Information on linkages with the industry will also be provided. Feel Free to talk to us and you will have your career start on the right note.

**BERTHA OMANYA**  
**HOD – GUIDANCE & COUNSELING/  
CAREER GUIDANCE OFFICE**



# CAUSES OF DEPRESSION

## IN OUR SOCIETY TODAY

Depression is a mood disorder that causes a persistent feeling of sadness and loss of interest. It affects how one feels, thinks and behaves, leading to a variety of emotional and physical issues. It affects one's sleeping pattern, concentration, appetite, daily behaviour, energy levels as well as self-esteem. Major depression is often associated with the affected person having suicidal thoughts, utterances and behaviour. It takes a keen eye to detect these signs at family, community or even institutional level. In some instances, these behaviours may be interpreted as indiscipline or general laxity issues and may be addressed in ways that might only escalate the problem and not help the affected person.

### TRIGGERS OF DEPRESSION

**Substance Abuse** – Drugs and alcohol may give temporary relief and happiness, but ultimately will aggravate depression. Research has shown that about 28% of drug abusers end up with major depression.

**Conflict** – Depression may arise from seemingly small or personal conflicts or disputes within the family or among friends and peers. Families and friends should be on the look-out for those who have frequent small squabbles with everyone around them.

**Death or Loss** – The demise of a loved one, brings a lot of grief and sadness in families. It is for this reason that during grieving, family members must be allowed to cry whenever they feel like mourning their loved one. Crying relieves internal pressure which would otherwise lead to suppressed feelings and eventually depression.

**Abuse** – Persons who have been physically, emotionally, socially or even sexually abused are easy candidates for depression at any stage of their lives. A child who was abused at a very young age tends to harbor very strong negative thoughts as they grow into adults and may end up being abusive too. Such “child-adult”

may be withdrawn and tends to keep away from fellow adults due to the trust that was lost earlier in life. Care givers need to be alert to this behaviour as such personalities may not readily share their childhood stories and choose the path of depression instead.

**Genes** – Where one's family has members who have reported depression-like tendencies, the risk of being a candidate becomes higher. Just like many psychiatric disorders, parents or grandparents who suffered the same may pass the same genes to their children.

**Gender** – Sadly, women are twice as likely as men to become depressed. The cause is not known but is generally thought that, the many hormonal changes that women go through at different periods in their lives could be a pointer towards this. The women should therefore know their vulnerability to depression and make every effort not to slide in this direction.

On a positive note, however, depression can be managed through Psycho-therapy support, medication and also through support from family.

BERTHA OMANYA - GUIDANCE & COUNSELING

## Library

The acquisition of knowledge, skills and attitudes was greatly challenged by the Pandemic of COVID -19 worldwide. However, the subscription of Nairobi Technical Training Institute with the Kenya Libraries and Information services Consortium (KLISC) helped mitigate the challenges. Through this subscription with KLISC, library users in the Institute are able to access over 200,000 E-resources that comprise of E-books and E-Journals. This makes it easy for trainers and trainees to conduct online classes, while observing the Ministry of Health protocols on COVID-19 of social distancing and working from home.

Other benefits that NTTI library users enjoy through the Online Library include; access to latest scholarly research articles from reputable Journals, continuous professional trainings and workshops for Library staff through KLISC and an online platform to communicate directly with book publishers and Journals.

To facilitate access to the subscribed E-resources and research databases online, the library boasts of high-speed internet connectivity with installed computers for access by users. It has also created Web-portals where users can use their laptops to access materials online or for their own private study. The library also has strong WIFI that enables library clientele to use their mobile phones to browse.

The reading materials physically shelved in the library include over 6500 books of diverse disciplines which are updated periodically to ensure latest editions are available. Recently the library acquired ABNO Library Management Information System (LMIS) which helps staff in the circulation desk serve the clientele expeditiously, and assists the library users know what is in the library and how to retrieve information via OPAC (Online Public Access Catalogue).

The library staff congratulates all the 2021 graduates and wishes them all the best as they start a new life in the job market.

**Peter Muinde, HOD Library**

## Pictorial



Practical session in Health & Applied Science Lab



Trainees in a motivation & prayers session



Food & Beverage Trainees in a practical session.



Graduates of 9th graduation ceremony

# Centre of Excellence in Automotive Mechatronics



## A. Background

The Centre of Excellence (COE) in Automotive Mechatronics was established at Nairobi TTI in 2019. The COE's establishment was supported through the Promotion of Youth Employment and TVET Project which is implemented by GIZ (Technical Cooperation) and KFW (Financial Cooperation) under the German Development Cooperation. The project is funded by the German Federal Ministry for Economic Cooperation and Development (BMZ) with the main objective being to establish pre-conditions for the implementation of an employment oriented Cooperative Vocational Training approach in close collaboration with the private sector.

## B. How Cooperative (Dual) Vocational Training Works

The Cooperative Vocational Training model (sometimes referred to also as dual vocational training) combines learning at a training institution with industrial experience and mentorship offered through in-company training. The learning outcomes at the training institution and at the company are based on a jointly developed plan. This model encourages stronger collaboration between Nairobi Technical Training Institute (NTTI) and private sector companies.

During the training, students spend 50% of their learning at Nairobi TTI and the remaining 50% at the industries that are cooperating in the programme. The students rotate in 3-monthly blocks between NTTI and the company until the 2.5-year course is over.

## C. Milestones made by the Centre of Excellence

The Centre signed an MoU with 5 companies initially to cooperate in the project and these are DT Dobie, Toyota Kenya, Top Quality Motors, Simba Corporaton, Daivin Auto and Stantech Motors. This year two additional companies; CMC Motors and Plateau Motors are providing training slots under the programme. A total of 15 students were admitted for the first cohort which started in October 2020 and an additional 21 students have been admitted for the second cohort which just started in September this year. The trainers at the centre have undergone specialized training to upgrade their technical competencies in line with the requirements of the labour market. The centre has also developed a Strategic Business Plan that will define its journey in the next five years.

## D. How the training content is developed

In the cooperative training approach, the industry leads in developing and defining the occupational standards which are used to package the com

petence-based curriculum.

The NTTI trainers together with in-company mentors then work together to develop a harmonized training plan divided into TTI-training plans and industry-training plans.

## E. How students/learners are selected to join the programme

Finding the right talent is important! The Automotive Mechatronics trainees are first interviewed by the respective companies that offer them training slots. Those that pass are placed at NTTI, in line with the course selection requirements.

## F. Qualifications required by the trainees to study the course

To be selected for the Automotive Mechatronics diploma, trainees require to have completed their secondary school education and scored a mean grade of C- (minus).

## G. Qualifications after course completion

On completion, students will receive a Level 6 Diploma from TVET-CDACC, with the option of a C-Level Certificate offered by the German Chamber of Commerce and Industry (AHK).

## H. How does one join the programme?

Candidates are received on rolling basis. Students are required to send application letters containing their KCSE grades and their motivation to join the course to;

*nairobitechnical@gmail.com or  
info@ntti.ac.ke  
or Contact 0721 233 394*

The story of  
**Margaret Wangui**

who is a student at the Centre of Excellence in  
**AUTOMOTIVE MECHATRONICS**

**NAIROBI TTI**



The nature and structure of vocational skills training in Kenya is changing fast to align with the growing demand for skilled labour.

A greater cooperation between technical training institutions and the private sector is one of the many pioneering ideas seeking to address the rising rate of unemployment among the youth through practical training.

***‘Since my childhood years, I always wanted to know and understand how cars work. When the opportunity came, I grabbed it with both hands.’***

These were the introductory words of Margaret Wangui, an Automotive Mechatronics trainee at the Nairobi Technical Training Institute (NTTI) as she describes the passion that drove her to join the automotive sector.

After her secondary school education, Margaret was lucky to be placed at Nairobi Technical Training Institute to undertake an automotive engineering course. While preparing to join the course, she got fascinated about the new Automotive Mechatronics diploma course that had an increased industry experience as an added bonus. She did not think twice about it. She applied for the course and was interviewed by technicians from DT Dobie.

Today, the charming female trainee is one of the 18 students in the first cohort to undertake a diploma in Automotive Mechatronics at NTTI. We caught up with her at DT Dobie, where together with two other trainees, they are being mentored by experienced automotive technicians while on their second industry block. Margaret lauds the programme as the most exciting journey in her life.

***‘I enjoy this training model because it has allowed me to be integrated at the workshop in the company at an early stage in my learning process. In fact, I was motivated to choose the course considering the added advantage working in a company,’*** she says.

On a normal day, Margaret and her fellow trainees are attached to an experienced technician, who assigns them specific tasks and evaluates their delivery in line with the competencies identified in the industry training plan. ***‘The exposure I have enjoyed working at the various units at DT Dobie is unmatched. For instance, my last assignment was to undertake an engine overhaul on a car through guidance from an experienced technician, and I did it!’*** she says. As if that is not enough, she has found a place among equals, working in a male-dominated sector. ***‘As a lady, working in a garage, I find joy in knowing I have fixed a car’s problem. It requires a lot of patience. I have received all the necessary support to be able to learn skills that can get me employed or even start my own hustle when I complete my training.’***

At the end of the 2.5 year Automotive Mechatronics Course, Margaret and her fellow trainees will be able to service, repair and maintain modern vehicle systems. Together, they will join many other automotive technicians that are helping drive mobility solutions in Kenya. As the only female trainee currently undertaking the course, Margaret is breaking the stereotype against female engineers working in the automobile industry. Although still a rookie in her field, she considers herself as a trailblazer that other ladies and youth seeking to join the sector can emulate, in search for a rewarding career.

## **Girl Power:** Nurturing a Career in Automotive Mechatronics

Whenever we hear anything automotive, many people picture a man wearing overalls, with their hands covered in dirt. But Margaret Wangui who always wanted to understand how cars work, is among the growing number of women that are enthusiastically pursuing their passion in the fast changing automotive industry.

## THE POWER OF POSITIVE IMAGERY

A mental imagery is a picture of something not real at the moment, but which is created in the mind of a person through imagination. A positive Imagery can help improve self-confidence, visualize success, and enhance one's ability to perform, succeed, and can also help an individual overcome stress and anxiety. A positive mental image makes a young person set and pursue high goals with enthusiasm and great energy. Such students easily overcome the challenges of academic pressure, negative peer pressure and behavior. Their daily character and behavior is demonstrated by a strong life of time management, hard work and self-respect. From amongst such are those that exhibit exemplary academic performance skills, gradually paving their way into great opportunities in the work field. I dare to remind us that every employer or organization in the work field is daily seeking for properly skilled graduates who also demonstrate strong soft, and life skills. This explains the reason some trainees 'tarmac' for long looking for work, while others are earmarked for employment as early as while in college, and during attachment. A negative imagery on the other hand is a mental image that only sees performance errors and unwanted outcomes. It makes an individual to be demotivated and become incapable of mounting power for success in performance. It makes the person to view themselves as failures, and such people have very low self-esteem. Any student that develops a negative mental imagery is less motivated to learn, therefore experiences difficulties in academic performance. Their

life in school becomes a boring norm where they are only passing time with no positive serious goal. Among such students are those engaging in negative antisocial behavior like drugs and alcohol abuse, truancy, unhealthy sexual behavior, extreme indecent dressing, abusive language, and even disrespect. A lot has been, and is being invested in the Kenyan youth; financially, materially, emotionally and even timewise. Equally, a lot is being expected from this youth post training. A trainee that will meet this expectation will require to envision themselves as being already successful. Programming the mind to seeing oneself as great and successful is extremely significant for setting high goals. This article is a call to rethink who we really are, and what is that highest and true expression of ourselves; the great person we are on the inside despite the circumstances around us at school and outside school. Nobody is a failure! Nobody is a misfortune! Describe your vision and goals; daily goals, weekly goals, monthly goals, yearly goals; and write them in a book. Read them to yourself daily, carry them with you every day, and make that booklet the most important 'journal' of your life! Visions and goals are magnetic and have power to pull you and realign your actions toward them. Erase a negative mindset by focusing onto that success you have already achieved; however small it is! Celebrate small victories as you move toward your great dreams. That is how you develop a positive mindset. Remember, every day is the beginning of the rest of your life, so do what is right, and what will improve you! Take positive chances and don't fear going outside the box. Feel big, dream big, and act big! Apply discipline and consistency to achieve these dreams. You are not a mistake, you are not an accident, you are in Nairobi Technical for a reason. You may be facing hard times, rough times, but it's not always going to be like that! Your present condition is not your conclusion!

Article by;

**Lydia Wanyaga Isindu.**

**Trainer Health & Applied Sciences**





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## SCIENCE, TECHNOLOGY AND INNOVATION THE WAY TO GO FOR TVET INSTITUTIONS



**Innovation Team at the 9th RVTTI Exhibition Contest 2021 presentation ceremony**

Science, Technology and Innovation play a critical role in each and every Sustainable Development Goal (SDG) by fostering access to knowledge, increasing productivity, industrialization, economic growth and creation of decent jobs. Promoting health and access to essential drugs, achieving food security through sustainable equitable agricultural systems and promoting renewable energy technologies in order to respond to the dual challenge of reducing energy poverty while mitigating climate change.

The Institute has developed innovations towards the realization of the sustainable development goals and the Big Four Agenda. Through the department of Electrical and Electronic Engineering, the Institute has become an innovation hub thereby creating a major footprint in the TVET sector. The innovations so far done are, Smart Farm Model, Automated Universal Fruit Extractor Incorporating a Packaging Unit, Automated Incinerator, Home Based Health Care System, Coin Based Mobile Phone Charging Unit Incorporating A Water Dispenser, Automated Hand Washing/Sanitizing Station and Industrial Pollution Control System Incorporating A GSM Alert and Data Storage Unit.

### **Water Cooling System “Refrigerator” exhibited by the Institute at the International Ozone Day 2021 held in Isiolo County**



For the last two years Nairobi T.T.I. it has scooped top awards, mainly ranked position 1 (one) both at the Regional and National KATTI Trade Fair/Robotics Contests. This year in June 2021, the Institute participated in the 10th Edition of the Rift Valley Technical Training Institute Exhibition Contest by presenting two innovations; the Water Cooling System and Smart Farm Model. The Institute won position 1 (one) and a monetary award of Ksh 200,000.

In August 2021 the Institute was invited to attend the annual Kenya Association of Manufacturers Energy Management Awards ceremony held at Safari Park Hotel after a rigorous vetting process. Two innovations were recognized, the Water Cooling System and Industrial Pollution Control System Incorporating a GSM alert. The institute was awarded the best institution in the TVET category.

## Automatic Industrial Air Pollution Control System incorporating a GSM alert and Database at the Kenya Association Of Manufacturers Energy Management Awards 2021



In September 2021, the Ministry of Environment and Forestry invited the Institute to participate in the World Ozone Day that was held in Isiolo County. The Ministry was so impressed with the Water Cooling System innovation that they requested for Ministry of Environment partnership in the production of more units. The Cabinet Secretary lauded the Institute for the great innovation which he described as a game changer in the cold storage equipment.

As an Institute, we no longer intend to focus on competitions/exhibitions alone. The innovations need to impact on livelihoods and also benefit the innovators. It is in this regard that the Institute has embarked on commercializing the innovations after patenting through partnerships with industry and government. Though so far there has not been very favorable response but it is our hope that this will change.



SMART FARM MODEL 2021

In keeping with emerging technological trends in the field of electrical and electronic engineering the department has introduced value addition short duration specialized training programs, they include PV Solar level T2, Solar Water Heating, Fiber Optics, Closed Circuit Television Systems, Domestic and Industrial Security Alarm Systems, Electric Fence Systems, Networking, System Configuration and Software and Electrical Power Technician.

" HONGERA TO OUR GRADUANDS"

WINSTON ATENYA-HOD ELECTRICAL AND ELECTRONIC ENGINEERING



# MECHANICAL AND CHEMICAL ENGINEERING DEPARTMENT

## INNOVATION AND THE BIG 4 AGENDA

The Mechanical and Chemical Engineering department is one of the Engineering department offering Craft and Diploma courses in the institute.

The department is involved in nurturing creativity and innovations towards the Government big 4 agenda. The courses offered in the department are competence based and are examined by Kenya National Examination Council, National Industrial Training Authority and City & Guilds.

In the year 2020, the department introduced welding level 4, Refrigeration and air conditioning level 5. These courses run under the CBET curriculum and are assessed by TVET CDACC.

The institute has been supported with training equipment and donations by development partners. In addition, the ministry of environment and forestry supports the training of Refrigeration and

air conditioning Technicians on safe use of HC refrigerants.

We congratulate all the grandaunts and wish them God's abundant blessings as they join the world of work.

**HOD MECHANICAL  
EDWARD KAMAU**



**Mechanical Engineering Trainees  
in the Wokrshop**

## NAIROBI TECHNICAL PRODUCTION UNIT

### MASK PRODUCTION



The institute produces 3 layer face mask for the staff and trainees.

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- Naitech Kerol Disinfectant
- Naitech Hand Wash
- Naitech White Bleach

This started in the year 2020 after identifying the need of producing detergents and sanitizers for the institute's consumption.

*The products are all accredited by the Kenya Bureau of Standards,*

**[KEBS]**

*and are therefore safe for use for the purposes for which they are intended for.*

So far, the production unit has managed to meet the needs of the institute and customers around and within the institution.

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# FINGER MILLET FLAKES

## Finger millet flakes

Due to declining climate change, global food security and nutrition over the past five decades, the Sustainable Development Goal (SDG) 2 advocates for programmes to ensure enhanced food security and nutrition. In most developing countries, there is negligence of several climate smart crops like Finger millet. The crop is more adapted to acidic, dry and/or infertile soils that render them cultivable. Indeed finger millet is grown in few areas in the Rift Valley, Western Regions and around the Lake Victoria Region in Kenya. In areas where it is grown the crop provides farmers with the best opportunity for reliable harvest, food and nutrition in environments where rainfall is erratic and scanty, and soil fertility levels are low and thus deemed one of the smart form of agriculture in the tropics.

Raw millet is consumed after milling to produce flour that can make limited products such as porridge, local beer (busaa), and African polenta (ugali). Commercially, East Africa Breweries and other brewers use finger millet as a raw ingredient in production of beer. A consensus is that value addition to the finger millet should be considered including processing into rather utilizable millet products that can be easily packaged. In this regard, finger millet has been processed elsewhere to prepare popped, malted

and fermented products including non-conventional products such as papads (rolled and dried preserved product), noodles and soups but not in Kenya. More recently, there is development towards processing of decorticated products such as flakes, which also takes place outside the country. However, there is no documented study of processing of finger millet flakes in Kenya.

The development of a finger millet product for the market will contribute to increased food varieties in Kenya. This is also expected to enhance consumption of millet products in the country, with concomitant health and nutritional benefits among the consumer Kenyans.



Kathleen Malesi

# Are you implementing more than one Management Systems ?



## Talk to us!

**At Borasoft** we have played an integral role in provision of Integrated Management System to our clients. We ensure that you do not only seek certification but also derive value and perform exemplarily well in the performance rating. We craft our solutions to fit into the client environment by conducting trainings on top management, process owners/ implementers, IMS champions and Internal Auditors, Documentation & Validation, Conducting internal Audits, Management review and Certification Audit.

### What does an IMS entail?

An **Integrated Management System (IMS)** integrates all of an organization's systems and processes into one complete framework, enabling an organization to work as a single unit with unified objectives. An IMS addresses all of your organization's objectives at once. However, it can be difficult to meet the needs of the various management systems operating within a single business. Integrated Standards has created a way to integrate multiple relevant systems into any organization, regardless of their market. Integrating several management systems into a unified system (who share documentation, policies, procedures and processes) makes sense.



### Which Management Systems can be integrated?

- 1. QMS – Quality Management System based on ISO 9001:2015**  
A quality management system (QMS) is a set of policies, processes and procedures required for planning and execution (production, development, service) in the core business area of an organization, (i.e. areas that can impact the organization's ability to meet customer requirements).
- 2. ISMS – Information Security Management System based on ISO 27001:2013**  
An Information Security Management System determines how your organization should organize and manage its information security to ensure information confidentiality, integrity and Availability.
- 3. BCMS - Business Continuity Management System Based on ISO 22301:2012**  
The standard provides a framework to plan, establish, implement, operate, monitor, review, maintain and continually improve a documented management system to protect against, reduce the likelihood of occurrence, prepare for, respond to, and recover from disruptive incidents when they arise.
- 4. OHSMS - Occupational Health and Safety Management Systems based on ISO 45001:2018**  
An SMS (or OHSMS) determines and continually improves an organization's Health and Safety position and performance. It follows an outline and is managed like any other facet of a business, such as with marketing or engineering functions.



In this day and age, the key to success of any organization is its ability to maximize its capacity by ensuring optimum utilization of the available resource that include but not limited to information, technology, Human resource, financial resource and time. This is coupled by the organization's ability to manage change and make timely decisions that would steer the organization towards greater level of performance.

Our key services ranges from total solutions in strategic plan and policy Development, Training and capacity Building, research, ICT Solutions and Management System Consultancy based on ISO Standards such Quality Management Systems based on ISO 9001:2015, Information Management System based on ISO 27001:2013, Business Continuity Management System Based on ISO 22301:2012, Occupational Health and Safety Management Systems based on ISO 45001:2018 and Knowledge Management Systems.

To ensure effectiveness and delivery of quality work, Borasoft is registered by National Industrial Training Authority (NITA) No: NITA/TRN/932 and Kenya Bureau of Standards - National Quality Institute – No; KEBS/NQ/IMCOR/32. Our consultants are affiliated with national and international professional bodies. With expertise drawn from long experiences of our consultants in the past years in the region and other parts of the world, Borasoft is the ultimate solutions provider.

**You can reach us through our website, [www.borasoft.co.ke](http://www.borasoft.co.ke), send an email via [info@borasoft.co.ke](mailto:info@borasoft.co.ke) call 0702555222 / 0202629783/4**

### 5. EMS – Environmental Management System Based on ISO 14001:2015

An Environmental Management System (EMS) determines and continuously improves an organization's environmental position and performance.

### 6. EnIMS – Energy Management System based on ISO 50001

An EMS determines and continually improves an organization's energy usage and impact.

### 7. FSMS – Food Safety Management System based on ISO 22000

A Food Safety Management System confirms that corporations in the food industry follow certain procedures and guidelines to ensure their products for customer safety.

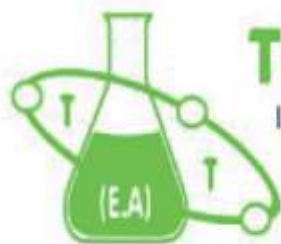
### What are the benefits of an IMS?

- \* Creating better consistency of the management systems
- \* Reducing ISO related bureaucracy
- \* Conducting integrated audits and assessments
- \* Optimizing Processes and Resources
- \* Cost Reduction through Integrated Audits
- \* Improvement of management systems account ability
- \* Facilitating of informed Decision Making
- \* Minimizing the disruption caused by several external audits

Our trainings are tailor made to accommodate; Introduction to integrated management system, Understanding various interrelated ISO management systems, How to integrate management system, IMS leadership, Identification of the Organization Context, Management system policies, identification and evaluation of aspects, impacts and risks in IMS, Implementation and operation—Operational control, Management of resources, Documentation requirement, Communication and Performance assessment just to mention a few.



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Ministry of Education, State Department of Vocational and Technical Training

# NAIROBI TECHNICAL TRAINING INSTITUTE

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## NTTI COURSES

### 1. HEALTH AND APPLIED SCIENCES DEPARTMENT

S/NO	COURSE	MINIMUM ENTRY REQUIREMENTS	DURATION	MODE OF STUDY	EXAM BODY
1	Diploma in Pharmaceutical Technology	KCSE Mean Grade C (Plain) with C in Maths or Physics, Chemistry, Biology and English or Kiswahili	3 Years	Full-Time	KNEC
2	Diploma in Medical Laboratory Technology	KCSE Mean Grade C (Plain) with C in Maths or Physics, Chemistry, Biology and English or Kiswahili	3 Years	Full-Time	KNEC
3	Diploma in Applied Biology (Module 1)	KCSE Mean Grade C (Minus)	3 Terms	Full-Time	KNEC
4	Diploma in Analytical Chemistry (Module 1)	KCSE Mean Grade C (Minus)	3 Terms	Full-Time	KNEC
5	Diploma in Food Science and Processing Technology (Module 1)	KCSE Mean Grade C (Minus)	3 Terms	Full-Time	KNEC
6	Diploma in Environmental Science (Module 1)	KCSE Mean Grade C (Minus)	3 Terms	Full-Time	KNEC
7	Certificate in Science Laboratory Technology (Module 1)	KCSE Mean Grade D (Plain)	3 Terms	Full-Time	KNEC
8	Certificate in Food Science Technology (Module 1)	KCSE Mean Grade D (Plain)	3 Terms	Full-Time	KNEC
9	Diploma in Community Health Level 6 (CBET)	KCSE Mean Grade C (Plain)	3 Years	Full-Time	NTTI/ODACC
10	Diploma in Health Records Level 6 (CBET)	KCSE Mean Grade C (Plain) with C in English/Kiswahili and C in Biology, Maths and Chemistry/Physics	3 Years	Full-Time	NTTI/ODACC

### 2. ELECTRICAL AND ELECTRONIC ENGINEERING DEPARTMENT

S/NO	COURSE	MINIMUM ENTRY REQUIREMENTS	DURATION	MODE OF STUDY	EXAM BODY
1	Diploma in Electrical and Electronic Technology (Module 1)	KCSE Mean C- (Minus)	3 Terms	Full-Time	KNEC
2	Certificate in Electrical and Electronic Technology (Module 1)	Power option Telecommunication option Instrumentation & Control option	3 Terms	Full-Time	KNEC
3	Certificate in Electrical and Electronic Technology (Module 1)	Certificate in Electrical and Electronic Technology (Module 1)	3 Terms	Part-Time/Evening	KNEC
4	Artisan Certificate in Electrical Installation	KCSE Certificate	3 Terms	Full-Time	NTTI/ODACC
5	Electrical Instrumentation Level 3 (CBET)	KCSE Certificate	6 Months	Full-Time	NTTI/ODACC

### 3. MECHANICAL AND CHEMICAL ENGINEERING DEPARTMENT

S/NO	COURSE	MINIMUM ENTRY REQUIREMENTS	DURATION	MODE OF STUDY	EXAM BODY
1	Diploma in Mechanical Engineering (Module 1) Production option	KCSE Mean Grade C- (Minus)	3 Terms	Full-Time	KNEC
2	Diploma in Mechanical Engineering (Module 1) Plant option	KCSE Mean Grade C- (Minus)	3 Terms	Full-Time	KNEC
3	Diploma in Chemical Engineering	KCSE Mean Grade C- (Minus)	3 Years	Full-Time	KNEC
4	Certificate in Mechanical Engineering (Module 1) Production option	KCSE Mean Grade D (Plain)	3 Terms	Full-Time	KNEC
5	Certificate in Plumbing and Pipe Fitting Grade 3	KCSE Mean Grade D+ (Minus)	2 Terms	Evening	NITA
6	Certificate in Refrigeration and Air Conditioning Grade 3	KCSE Mean Grade D+ (Minus)	2 Terms	Evening	NITA
7	Refrigeration and Air Conditioning Level 5 (CBET)	KCSE Mean Grade D (Plain)	3 Terms	Full-Time	NTTI/ODACC

### 4. INSTITUTIONAL MANAGEMENT DEPARTMENT

S/NO	COURSE	MINIMUM ENTRY REQUIREMENTS	DURATION	MODE OF STUDY	EXAM BODY
1	Diploma in Food & Beverage Management (Module 1)	KCSE Certificate Mean Grade C-	3 Terms	Full-Time	KNEC
2	Certificate in Food and Beverage Production and Service (Module 1)	KCSE Certificate Mean Grade D (Plain) or Artisan Certificate in Food & Beverage Production and Service (KNEC)	3 Terms	Full-Time	KNEC
3	Artisan Certificate in Food & Beverage Production & Service	KCSE Certificate	3 Terms	Full-Time	KNEC
4	Food and Beverage Production Level 4 (CBET)	KCSE Certificate	2 Terms	Part-Time	NTTI/ODACC

### 5. BUSINESS STUDIES DEPARTMENT

S/NO	COURSE	MINIMUM ENTRY REQUIREMENTS	DURATION	MODE OF STUDY	EXAM BODY
1	Certificate in Business Management (Module 1)	KCSE mean Grade D plain	3 Terms	Full-Time	KNEC
2	Certificate in Supply Chain Management (Module 1)	KCSE mean Grade D plain	3 Terms	Full-Time	KNEC
3	Certificate in Human Resource Management (Module 1)	KCSE mean Grade D plain	3 Terms	Full-Time	KNEC
4	Certificate in Sales and Marketing (Module 1)	KCSE mean Grade D plain	3 Terms	Full-Time	KNEC
5	Diploma in Business Management (Module 1)	KCSE mean Grade C- (Minus) or pass in Certificate in Business Administration (TEP)	3 Terms	Full-Time	KNEC
6	Diploma in Supply Chain Management (Module 1)	KCSE mean Grade C- (Minus) or pass in Certificate in Supplies Management (TEP)	3 Terms	Full-Time	KNEC
7	Diploma in Human Resource Management (Module 1)	KCSE mean Grade C- (Minus) or pass in Certificate in Human Resource Management (TEP)	3 Terms	Full-Time	KNEC
8	Diploma in Sales and Marketing (Module 1)	KCSE mean Grade C- (Minus) or pass in Certificate in Sales and Marketing (TEP)	3 Terms	Full-Time	KNEC
9	Accountancy Level 6 (CBET)	Human Resource Management Level 5 (CBET) with 1 year continuous working experience	2 Years	Full-Time	NTTI/ODACC
10	Marketing Level 6 (CBET)	Accountancy Level 5 (CBET) with 1 year continuous working experience	2 Years	Full-Time	NTTI/ODACC
11	Marketing Level 6 (CBET)	Marketing Level 5 (CBET) with 1 year continuous working experience	2 Years	Part-Time	NTTI/ODACC
12	Office Administration Level 6 (CBET)	Office Administration Level 5 (CBET) with 1 year continuous working experience	2 Years	Part-Time	NTTI/ODACC
13	Supply Chain Management Level 6 (CBET)	Supply Chain Management Level 5 (CBET) with 1 year continuous working experience	2 Years	Part-Time	NTTI/ODACC

### 6. INFORMATION AND COMMUNICATION TECHNOLOGY DEPARTMENT

S/NO	COURSE	MINIMUM ENTRY REQUIREMENTS	DURATION	MODE OF STUDY	EXAM BODY
1	Diploma in Information Communication Technology (Module 1)	KCSE Mean Grade C- (Minus)	3 Terms	Full-Time	KNEC
2	Certificate in Information Communication Technology (Module 1)	KCSE Mean Grade D (Plain)	3 Terms	Full-Time	KNEC
3	ICT Technician Level 6 (CBET)	KCSE Mean Grade C- (Minus)	2 Years	Part-Time	NTTI/ODACC

### 7. LIBERAL STUDIES DEPARTMENT

S/NO	COURSE	MINIMUM ENTRY REQUIREMENTS	DURATION	MODE OF STUDY	EXAM BODY
1	Diploma in Social Work and Community Development (Module 1)	KCSE Certificate Mean Grade C-	3 Terms	Full-Time	KNEC
2	Certificate in Social Work and Community Development	KCSE Mean Grade D Plain	3 Terms	Full-Time	KNEC
3	Social Work and Community Development Level 5 (CBET)	KCSE Mean Grade D (Plain)	1 Year	Part-Time	NTTI/ODACC

### 8. AUTOMOTIVE ENGINEERING DEPARTMENT

S/NO	COURSE	MINIMUM ENTRY REQUIREMENTS	DURATION	MODE OF STUDY	EXAM BODY
1	Diploma in Automotive Engineering (Module 1)	KCSE Mean Grade C- (Minus)	3 Terms	Full-Time	KNEC
2	Certificate in Automotive Engineering (Module 1)	KCSE Mean Grade D Plain OR Artisan Motor Vehicle Mechanics OR National Vocational Certificate of Educational Training (NVQET) in Automotive Technology	3 Terms	Full-Time	KNEC
3	Artisan Certificate in Motor Vehicle Mechanics	KCSE Certificate	3 Terms	Full-Time	KNEC
4	Automotive Mechanics Technician (Applications class on 3007/0207)	KCSE Mean Grade C- (Minus)	6 Terms	Full-Time	NTTI/ODACC
5	Automotive Mechanics Technician Level 6 (CBET)	KCSE Mean Grade C- (Minus)	3 Terms	Full-Time	NTTI/ODACC

### 9. ENTREPRENEURSHIP DEPARTMENT

S/NO	COURSE	ENTRY REQUIREMENTS	DURATION	MODE OF STUDY	EXAM BODY
1	Diploma in Entrepreneurship Development (Module 1)	KCSE Mean Grade C- (Minus) or Certificate in Entrepreneurship	3 Terms	Full-Time	KNEC
2	Diploma in Project Management (Module 1)	KCSE Mean Grade C- (Minus) or Certificate in Project Management	3 Terms	Full-Time	KNEC
3	Certificate in Project Management (Module 1)	KCSE Mean Grade D Plain	3 Terms	Full-Time	KNEC

### 10. SHORT COURSES (INTAKE EVERY MONTH)

S/NO	COURSE	MINIMUM ENTRY REQUIREMENTS	DURATION	MODE OF STUDY	EXAMINATION BODY
1	Photo-Voltaic Solar Electricity Technician Course T2	Electrical Installation Artisan/Technicians, Electrical Industry Professionals and Business owners with KCSE Plus Diploma in Electrical and/or Electronic Engineering OR BSC: Electrical Engineering or relevant Degree OR Higher National Diploma in Electrical Engineering	3 weeks: Mon to Friday 6.00 pm to 7.30 p.m. Saturday 6.30 a.m. to 3.00 p.m.	Evening	Nairobi Technical Training Institute (NTTI), Nairobi Technical Training Institute (NTTI)
2	Solar Water Heating Technician Course	Plumbing Technicians, Mechanical/Electrical/Building Industry Professionals and Business owners with: KCSE Plus Diploma/Certificate Grade Test-Higher National Diploma OR BSC/BT/ech in relevant Engineering qualifications	3 weeks: Mon to Friday 6.00 pm to 7.30 p.m. Saturday 6.30 a.m. to 3.00 p.m.	Evening	Nairobi Technical Training Institute (NTTI)
3	International Certificate of Digital Literacy (ICDL)	KCSE Certificate	3 Months	Part-Time	Nairobi Technical Training Institute (NTTI) and ICDL
4	Light Manual	National ID	1 Month	Full-Time	Nairobi Technical Training Institute (NTTI) and NITA

### Application Procedure

- Apply online through Kenya Universities and Colleges Central Placement Service - KUCCPS (<https://student.kuccps.net/>) OR
- Download the Application Form with instructions from our Website: [www.nairobiti.ac.ke](http://www.nairobiti.ac.ke) or collect the Application Form from the Institute.
- Send or hand deliver the Application Form to:

THE PRINCIPAL  
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P. O. Box 30039-00100, NAIROBI

You do not need any influence to secure Admission.

The Institute is located along Mugira Road, Off Park Road and Ring Road Ngara, between Kenolok and Pangani Police Station Use Matatus No. 6, 14, 17, 32, 42, 46, 100 or 120

The Institution encourages qualified Persons with Disabilities to apply for any advertised Course. Female Applicants are encouraged to apply for Science, Engineering, and Technology courses.



NAIROBI TECHNICAL TRAINING INSTITUTE - ISO 9001:2015 CERTIFIED TVET INSTITUTION