Skill Up

ACADEMY

COURSE GUIDE

City & Guilds Approved Centre

CONTENTS

INTRODUCTION

Welcome 3

SkillUp Dream 4

Our Vision 4

Our Mission 4

Methodology 4

Workshops & Training Rooms 5

Learning Resources 6

TRAINING DELIVERY APPROACH

Training 7

OUR ACADEMY COURSES

Short Courses 8

Long Term Modular Course 9

Mechatronics Programme (Plant & Process Automation) 10

Electro-Mechanics Module 12

Technician Certificate in Electrical Installation & Control 13

Technician Certificate in Electrical Electronics Equipment (Maintaining Electrical Electronics) 14

Technician Certificate in Welding (Manual Metal Arc (MMA) & Oxy-Acetylene) 15

Refrigeration & Air-conditioning Module 16

Plumbing Installation & Maintenance 17

Fashion Design (Pattern Cutting Module) 18

OUR STUDENTS

Testimonies 19

WHATEVER YOUR PASSION, YOU CAN MASTER IT AT SkillUp ACADEMY, LAGOS.

SkillUp is a place where #Real Dreams are brought to life, where individual talents pool together across disciplines in services of big projects and big ideas.

SkillUp is a hub of innovation and creativity. It is an intersection of disciplines, a launch pad for a brilliant and a highly unique state of mind.

It is a perfect environment in which to pursue your dream. Here, the future is envisioned each day, and remade each day after.

Welcome

Thank you for taking time to look through our propectus, we hope you will find it an encouraging introduction to our Academy.

We welcome you to study with us, progressing from our Short-term basic courses to our Long-term Modular Certificate, Diploma and Advanced Diploma Courses.

Accreditation and Affiliation:

City & Guilds Approved Centre

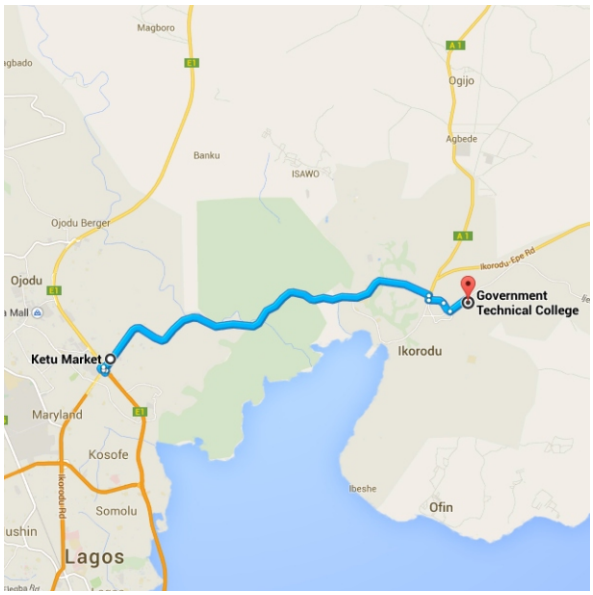
Imagine the possibilities...

SkillUp Dream

Empowering Youths
to become Competent
Enterprise Builders &
Wealth Creators

Find us on Google Map

SkillUp Academy
Government Technical College
Obafemi Awolowo Rd, Ikorodu



Our Vision

SkillUp seeks to revive the "Art of TVET," raising awareness among young people on the benefits of skills acquisition, challenging them to creatively use their skills and talent as emerging entrepreneurs thereby stimulating wealth creation thus reducing unemployment in the medium to long term.

Our Mission

1. To strategically intervene and revive Technical & Vocational Education by upgrading the quality; course content and infrastructure available to learners thereby attracting and raising a new breed of workforce and correcting the poor public perception of skills acquisition.

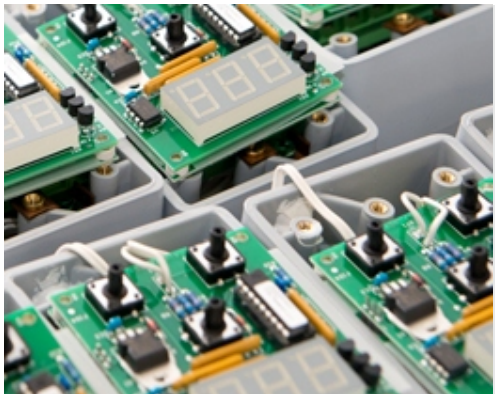
2. To support regional and national development targets by providing a huge pool of well trained and competent workers for the labour market; stimulating entrepreneurship and wealth creation, thereby reducing unemployment.

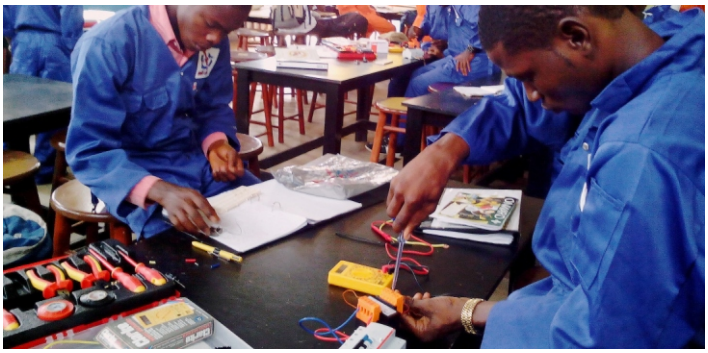
3. To directly impact over the next 10years almost every sector of the economy long-term beginning with construction/housing thereafter oil & gas, power, manufacturing etc. by producing an industry-ready workforce. This we believe would significantly reduce the amount lost to capital flight through the excessive importation of skilled labour despite our large population.

Methodology

Our Academy

Workshops & Training Rooms





Our Academy

Learning Resourses

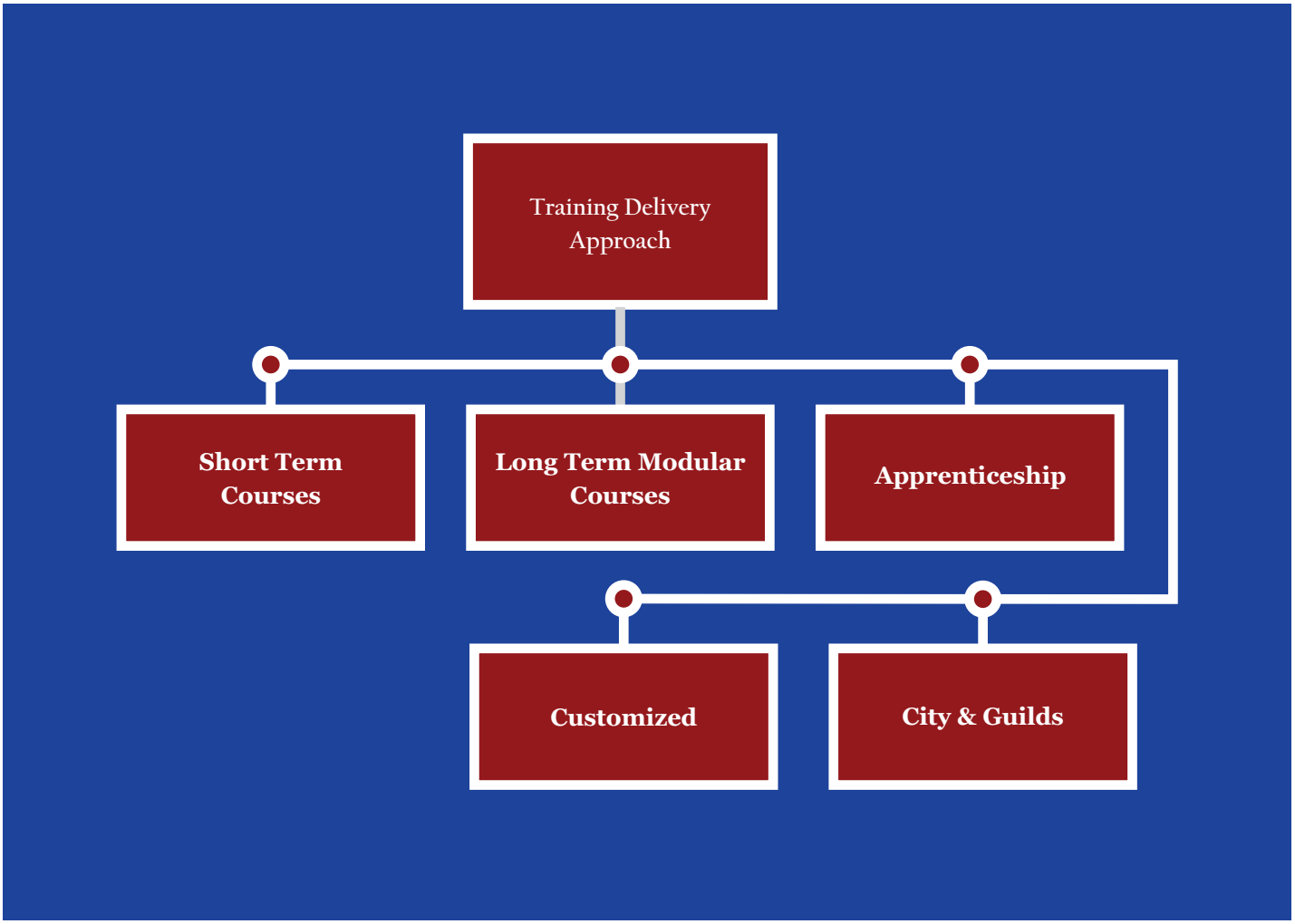
The Academy works with leading Industry-subject experts to deliver our courses.

TRAINING DELIVERY APPROACH

Training

Our trainings are Industry-backed technical skills programme, designed to help cushion the huge technician and artisans skills gap in the industries.

We apply the following training pathways:



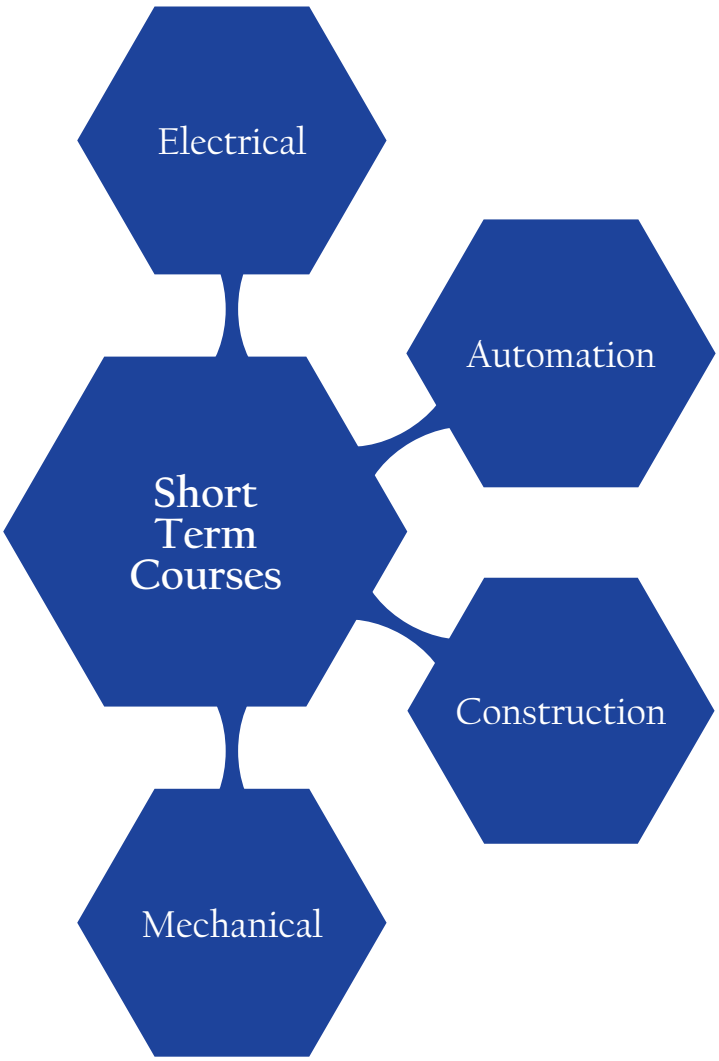
Short Term Courses

These are courses offered across major areas of technical skills expertise ranging from 3 days to 5days. They are professionally selected topics in subject areas taught by excellent instructors in the related fields. The training consists primarily of practical hands-on exercises and a brush on theory in a 75:25 ratio respectively.

The aim of the short course is to refresh the technical knowledge of workers employed in the industry, the underemployed and those in need of general upgrade in the automated world.

They are grouped as follows:

1. Electrical
2. Automation
3. Construction
4. Mechanical



Electrical

Automation

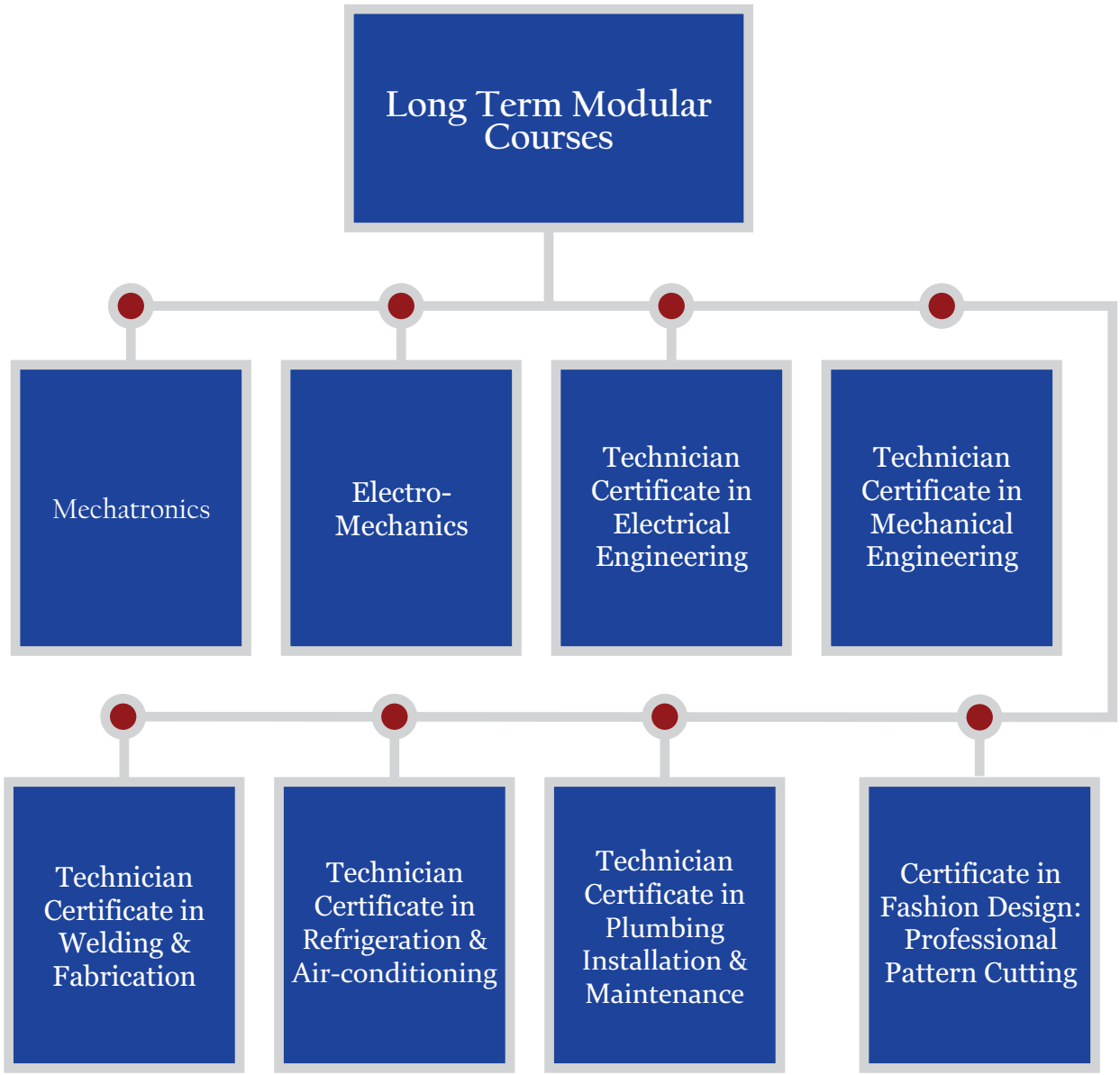
Construction

Mechanical

For further information, please download our SkillUp Technical Training Brochure on our website **www.skillupng.com**

Long Term Modular Courses

They are industry-backed technical skills training that are targeted primarily at the youth. No technical/engineering experience is required to benefit from this training. The duration of the training is between 3-9 months. They are classified as follows:



Mechatronics Programme
(Plant & Process Automation)

The current technological designs are highly complex and inter-disciplinary in nature involving synergistic integration of many aspects of engineering knowledge base. Mechatronics combines the knowledge and skills of three engineering disciplines: Mechanical, Software, and Electrical/ Electronics. As a mechatronic-savvy technologist or engineer, you will have the opportunity to operate and maintain machinery with electronic and computer controlled systems such as; automobiles, power generators and mining and chemical plant machineries.

TARGET AUDIENCE

University/Polytechnic Engineering Graduates, Unemployed Engineering Graduates, and Young Engineering Technicians (with prior industrial experience)

DURATION

6 months (Mon – Fri)
Week programme (Full Time)

16 months (Sat & Sun)
Weekend programme (Part Time)

INTERNSHIP

Six months internship placement in relevant industry for full time students

TUITION FEE

Provided upon successful admission

ADMISSION REQUIREMENT

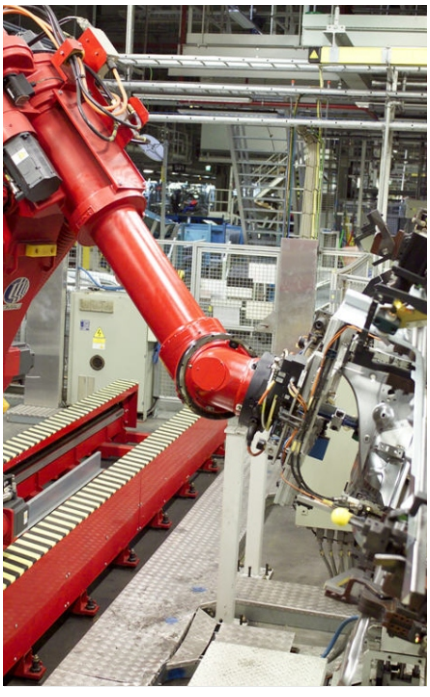
All candidates shall satisfy the following before admission:

1. Have a minimum of B.Sc. or HND or Experienced ND Holder
2. Must be between 16 – 26 years
3. Sit for aptitude test
4. Attend assessment/selection interview
5. Demonstrate commitment to learning and completing the programme

This #Real Dreams Empowerment training programme is aimed at equipping the participants with the appropriate skills and competencies to interpret installation diagrams, explain the operation of circuits and systems and also identify and test electrical and mechanical components. Participants will also be able to perform diagnostic checks on prepared (simple) systems and make deductions from the results of these checks, which leads to a correct fault diagnosis.

Graduates of this programme will gain hands-on experience working with pneumatics, hydraulics, Electro- pneumatics, Electric motors, AC Inverter, PLC, Instrumentation equipment with Mechanical parts maintenance and Machines. Emphasis shall be on Installation, Commissioning and Maintenance of all these equipment and Programming of networked factory and process automation systems as well as interpretation of electrical and pneumatics diagrams as an aid to troubleshooting. They will also be competently fit to meet the needs of modern production environment Manufacturing, Oil and Gas, Telecommunication, and other associated industries.

The training is highly recommended for Mechanical, Electrical & Electronics Engineering undergraduate students of universities/ polytechnics, Industry Technicians and Unemployed Engineering Graduates eager to acquire economic beneficial skills.



Expected Learning Outcomes

1. Understand the principles of the "Total Engineering Approach" to production systems
2. Apply the Principles of Typical Sensors
3. Apply the Principles of Pneumatic, Hydraulic, Mechanical & Electrical Actuation Systems using fluid power control system tools
4. Apply the Principles of Embedded Control
5. Carry out fault finding on Pneumatic, Hydraulic, Mechanical & Electrical Actuation Systems using fluid power control system tools
6. Gain hands-on experience working with pneumatics, hydraulics, Electro- pneumatics, Electric motors, AC Inverter, PLC, Instrumentation, etc.
7. Emphasis shall be on Installation, Commissioning and Maintenance of all these equipment and Programming of networked factory and process automation systems as well as interpretation of electrical and pneumatics diagrams as an aid to troubleshooting.

Electro-Mechanics Module

Electro-mechanical programme is a Technical Skills Training Program that prepares graduates to become multi-skilled industrial technicians. It is focused on developing skills associated with how to install, maintain, troubleshoot and repair various manufacturing and engineering services equipment and facilities using the City & Guilds of London framework.

TARGET AUDIENCE

Young Secondary School Leavers, Technical College Graduates & any Youth (regardless of knowledge discipline) eager to acquire economic beneficial skills

DURATION

9 months (Mon – Fri)
Week programme

INTERNSHIP

Six months internship placement in relevant industry for full time students

TUITION FEE

Provided upon successful admission

ADMISSION REQUIREMENT

All candidates shall satisfy the following before admission:

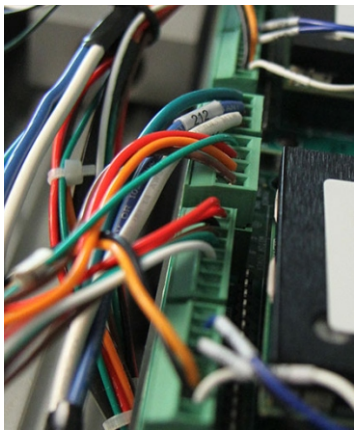
1. Have a minimum of SSCE/its equivalent (Science)
2. Must be between 16 – 26 years
3. Sit for aptitude test
4. Attend assessment/selection interview
5. Demonstrate commitment to learning and completing the programme

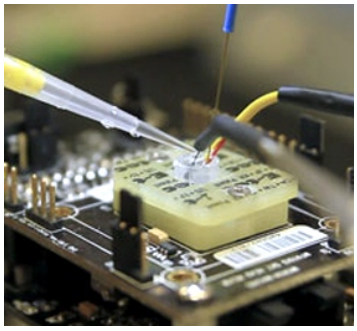
This #Real Dreams Empowerment training programme is aimed at equipping the participants with the appropriate skills and competencies related to Electronics, Electrical Installation, Mechanical devices, Pneumatics and Automated systems. Graduates of this programme are in high demand in various industrial sectors.

This training is highly recommended for Young School Leavers, Graduates of Technical Colleges, Junior Technicians and any Youth (regardless of knowledge discipline) eager to acquire economic beneficial skills.

Expected Learning Outcomes

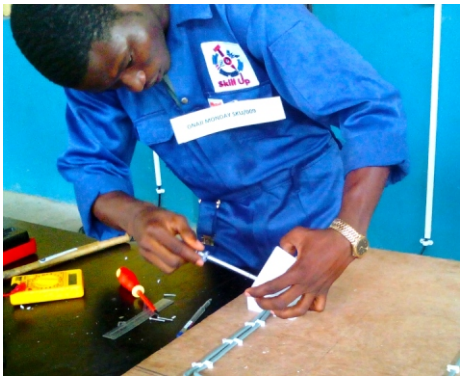
1. Understand the principles of "Total Engineering"
2. Carry out both Domestic & Industrial Electrical Installation
3. Carry out Domestic & Industrial Mechanical Installation
4. Fabricate Mechanical parts
5. Maintain Mechanical, Electrical & Electronic Industrial equipment
6. Install, maintain and troubleshoot basic Automation Equipment





Technician Certificate in Electrical Installation & Maintenance

The Electrical Installation & Maintenence will provide participants with the knowledge and practical competence needed to install, alter, repair and maintain electrical systems designed to provide heat, light, power, control, signal for all types of buildings, machineries, structures and premises using the City & Guilds of London framework. This course also covers basic repairs and planned maintenance to an existing installation.



This #Real Dreams Empowerment training programme is aimed at equipping the participants with the appropriate skills and competencies to operate and maintain safe working conditions, identify and select quality materials based on their technical properties and gain the practical competencies required for installation and routine maintenance.

The training is highly recommended for Electrical Engineering undergraduate students of universities/polytechnics, Electrical Graduates of Technical Colleges, Junior Technicians, Unemployed Graduates and any Youth (regardless of knowledge discipline) eager to acquire economic beneficial skills.

Expected Learning Outcomes

1. Carry out safe working practices to prevent hazards and proper usage of Personal Protective Equipment (PPE)
2. Identify and select quality materials for specific applications and also describe the technical properties of materials in single and three phase circuits
3. Take off accurate dimensions from drawings and calculate values and quantities for single and three phase circuits
4. Layout and install the various electrical circuits in residential, commercial, industrial and institutional complexes and buildings
5. Be thoroughly familiar with the safety requirements for electrical installations
6. Be capable of troubleshooting and maintaining electrical systems and equipment
7. Competently use the test instruments and various tools necessary to perform tasks
8. Install electrical systems; carry out the inspection and testing of single and three phase domestic installations
9. Diagnose, locate and repair faults within an electrical installation
10. Safely undertake alterations to an existing installation and conduct planned maintenance procedures

TARGET AUDIENCE

Post-Secondary School, Graduates of Technical Colleges, University/ Polytechnic Mechanical, Electrical & Fashion Graduates, Unemployed Graduates of any discipline seeking conversion & any Youth (regardless of knowledge discipline) eager to acquire economic beneficial skills

DURATION

3 months (Mon – Fri)
Week programme (Full Time)
8 months (Sat & Sun)
Weekend programmes (Part Time)

TUITION FEE

Provided upon successful admission

ADMISSION REQUIREMENT

All candidates shall satisfy the following before admission:

1. Have a minimum of SSCE/its equivalent
2. Sit for aptitude test
3. Attend assessment/selection interview
4. Demonstrate commitment to learning and completing the programme

Technician Certificate in Electrical Electronics Equipment

(Maintaining Electrical Electronics)

Maintaining Electrical Electronics Equipment is focused on developing skills associated with the processes and equipment essential to building and testing electronic circuits using the City & Guilds of London framework. This course deals with the Electrical and Electronic Technology required for working with lighting, heating and power circuits and electronic components.

TARGET AUDIENCE

Post-Secondary School, Graduates of Technical Colleges, University/ Polytechnic Mechanical/Electrical Graduates, Unemployed Graduates of any discipline seeking conversion, & any Youth (regardless of knowledge discipline) eager to acquire economic beneficial skills

DURATION

3 months (Mon – Fri)

Week programme (Full Time)

8 months (Sat & Sun)

Weekend programmes (Part Time)

TUITION FEE

Provided upon successful admission

ADMISSION REQUIREMENT

All candidates shall satisfy the following before admission:

1. Have a minimum of SSCE/its equivalent
2. Sit for aptitude test
3. Attend assessment/selection interview
4. Demonstrate commitment to learning and completing the programme

This #Real Dreams Empowerment training programme is aimed at equipping the participants with the appropriate skills and competencies to collect, read and interpret information, plan and prepare for electronic activities and how to identify electronic components. Participants would also be able to perform circuit and diagnostic checks and make simple deductions from the results of these checks.

This training is highly recommended for Electrical & Electronics Engineering undergraduate students of universities/polytechnics, Graduates of Technical Colleges, Junior Technicians, Unemployed Graduates and any Youth (regardless of knowledge discipline) eager to acquire economic beneficial skills.

Expected Learning Outcomes

1. Know the Basic Units used in Electrotechnology
2. Know the application of Electrotechnology
3. Identify the characteristics of an Electrical Circuit
4. Prepare for Building and Testing of Electronic Circuits
5. Test, Fault find and Repair Electronic Equipment
6. Construct new and identify faults on existing Electronic Equipment
7. Proper use of Personal Protective Equipment (PPE)

Technician Certificate in Welding

(Manual Metal Arc (MMA) & Oxy-Acetylene)

Many processes of engineering like welding involves cutting, bending and assembling of metals. These processes require expertise to carry them out without causing any harm. Poor handling of these processes not only harm the individual carrying out these acts but also the people around them.

Manual Metal Arc (MMA) & Oxy-Acetylene Welding is focused on developing welding skills that meets up with the defect acceptance requirement of BS 4872 Part 1 in Steel or Stainless steel using the City & Guilds of London framework. This course deals with the technology and the principles that underpin the fabrication and welding processes as well as the application of this knowledge within a health & safety compliant environment.

This #Real Dreams Empowerment training programme is aimed at equipping the participants with the appropriate skills and competencies in producing standard welded joints safely using the MMA & Oxy-Acetylene welding processes.

The training is highly recommended for Mechanical Engineering undergraduate students of universities/polytechnics, Graduates of Technical Colleges, Junior Technicians, Unemployed Graduates and any Youth (regardless of knowledge discipline) eager to acquire economic beneficial skills.

Expected Learning Outcomes

1. Understand Basic Principles, terminology and symbols of Welding
2. Understand the effects of Welding
3. Know how to identify common metals used in fabrication and determine forming allowances
4. Know safe working practices and proper use of Personal Protective Equipment (PPE) associated with MMA & Oxy-Acetylene Welding
5. Prepare MMA & Oxy-Acetylene Equipment & Materials for Welding
6. Produce Standard Welded Joints safely using MMA & Oxy-Acetylene Welding
7. Visually check welds for defects

TARGET AUDIENCE

Post-Secondary School, Graduates of Technical Colleges, University/ Polytechnic Mechanical/Electrical Graduates, Unemployed Graduates of any discipline seeking conversion, & any Youth (regardless of knowledge discipline) eager to acquire economic beneficial skills

DURATION

3 months (Mon – Fri)
Week programme

8 months (Sat & Sun)
Weekend programmes (Part Time)

TUITION FEE

Provided upon successful admission

ADMISSION REQUIREMENT

All candidates shall satisfy the following before admission:

1. Have a minimum of SSCE/its equivalent
2. Sit for aptitude test
3. Attend assessment/selection interview
4. Demonstrate commitment to learning and completing the programme

Refrigeration & Air-conditioning Module

Refrigeration & Air-conditioning Basic Installation & Maintenance is focused on developing skills associated with how to set out and form pipe runs for basic domestic and small commercial installations using the City & Guilds of London framework. This course also covers basic repairs and planned maintenance.

TARGET AUDIENCE
Post-Secondary School, Graduates of Technical Colleges, University/ Polytechnic Mechanical/ Electrical Graduates, Unemployed Graduates of any discipline seeking conversion, & any Youth (regardless of knowledge discipline) eager to acquire economic beneficial skills

DURATION
3 months (Mon – Fri)
Week programme (FulTime)
8 months (Sat & Sun)
Weekend programmes (Part Time)

TUITION FEE
Provided upon successful admission

ADMISSION REQUIREMENT
All candidates shall satisfy the following before admission:

1. Have a minimum of SSCE/its equivalent
2. Sit for aptitude test
3. Attend assessment/selection interview
4. Demonstrate commitment to learning and completing the programme

This #Real Dreams Empowerment training programme is aimed at equipping the participants with the appropriate skills and competencies to operate in a safe environment, identify quality materials, how to select and use hand tools in a correct and safe manner and practical competencies required for installation and routine maintenance.

This training is highly recommended for Mechanical & Electrical Engineering undergraduate students of universities/ polytechnics, Graduates of Technical Colleges, Junior Technicians, Unemployed Graduates and any Youth (regardless of knowledge discipline) eager to acquire economic beneficial skills.

Expected Learning Outcomes

1. Carry out safe working practices to prevent hazards and proper usage of Personal Protective Equipment (PPE)
2. Use and maintain hand and power tools to the standards of competency and safety required in the trade
3. Gain a thorough knowledge of the principle components of refrigeration systems, heat/cool units and air conditioning
4. Gain a thorough knowledge of the electrical and automatic controls used in all aspects of the refrigeration and air conditioning industry
5. Identify and select refrigeration quality pipes and fittings and also describe their basic properties
6. Measure and set out pipework required for domestic and small commercial installations
7. Carry out basic repairs and routine maintenance of Refrigeration & Air-conditioning equipment

Plumbing Installation & Maintenance is focused on developing skills associated with how to set out, fabricate, install, test and commission domestic plumbing and pipe installations using the City & Guilds of London framework. This course also covers basic repairs and planned maintenance.

This #Real Dreams Empowerment training programme is aimed at equipping the participants with the appropriate skills and competencies to operate in a safe environment identify quality materials, how to select and use hand tools in a correct and safe manner and practical competencies required for installation and routine maintenance. It would cover Domestic:

a. Water pipework
b. Gas pipework
c. Sanitation and Drainage pipework
d. Rainwater Gutters and Downpipes

This training is highly recommended for Mechanical & Electrical Engineering undergraduate students of universities/polytechnics, Graduates of Technical Colleges, Junior Technicians, Unemployed Graduates and any Youth (regardless of knowledge discipline) eager to acquire economic beneficial skills.

Expected Learning Outcomes

1. Install and maintain all plumbing systems, including hot liquid heating, water supply, water treatment and compressed air and vacuum systems
2. Fabricate and install any of the pipe systems used for various purposes in buildings as stated above, using any type of pipe: steel, cast iron, copper, plastic, etc.
3. Provide safe and efficient systems which function well in conjunction with other systems
4. Know the rules and codes governing installations
5. Read and interpret plans and specifications and prepare layouts and working drawings
6. Be proficient with the safe use of hand tools, powered machines and equipment
7. Calculate material quantities
8. Detail components and fixtures according to specifications and assume responsibility for the end product
9. Relate to job situations and other trades that precede or follow
10. Perform assigned tasks in accordance with quality and production standards required by industry

TARGET AUDIENCE

Post-Secondary School, Graduates of Technical Colleges, University/ Polytechnic Mechanical/Electrical Graduates, Unemployed Graduates of any discipline seeking conversion, & any Youth (regardless of knowledge discipline) eager to acquire economic beneficial skills

DURATION

3 months (Mon – Fri)
Week programme (Full Time)
8 months (Sat & Sun)
Weekend programmes (Part Time)

TUITION FEE

Provided upon successful admission

ADMISSION REQUIREMENT

All candidates shall satisfy the following before admission:

1. Have a minimum of SSCE/its equivalent
2. Sit for aptitude test
3. Attend assessment/selection interview
4. Demonstrate commitment to learning and completing the programme

Fashion Design

Pattern Cutting Module

The Professional Pattern Cutting course is designed using the London College of Fashion outline, to present professional pattern cutting to the "would-be" pattern cutter. This course has been developed with the novice in mind to introduce and teach the basics of fabrics cutting (and making up) to the desired learner, using a simple and uncluttered approach.

The Pattern Cutter is the competent person who can look at a dress style in a catalogue, drawing or designer's sketch and convert this into a clothing pattern. It is from using this pattern therefore, that the fabric can be cut and made up into the desired style.

TARGET AUDIENCE

Post-Secondary School, Graduates of Technical Colleges, University/ Polytechnic Mechanical/Electrical Graduates, Unemployed Graduates of any discipline seeking conversion, & any Youth (regardless of knowledge discipline) eager to acquire economic beneficial skills

DURATION

3 months (Mon – Fri)

Week programme (Full Time)

TUITION FEE

Provided upon successful admission

ADMISSION REQUIREMENT

All candidates shall satisfy the following before admission:

1. Have a minimum of SSCE/its equivalent
2. Sit for aptitude test
3. Attend assessment/selection interview
4. Demonstrate commitment to learning and completing the programme

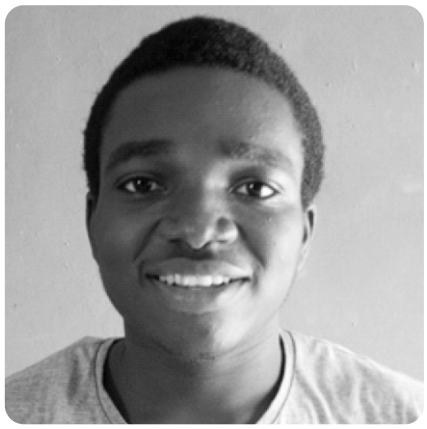
This #Real Dreams Empowerment training programme is aimed at equipping the participants with a professional understanding of the principles and techniques involved in translating a designer's drawing of a dress style, into the realities of commercially viable pattern.

The training is highly recommended for Undergraduate & Graduate students of Universities/Polytechnics, Students & Graduates of Technical Colleges, and any Youth (regardless of knowledge discipline) eager to acquire economic beneficial skills in Fashion Designs & the Art of Cloth making.

Expected Learning Outcomes

1. Have a good understanding of the Fashion Industry value-chain, and all its practitioners; the different skills, and the division of labour that make up the clothes manufacturing industry
2. Understand Basic Industry terminologies
3. Use pattern making tools and equipment with health & safety
4. How to take correct body measurements
5. Know the technical & economic importance of the Pattern Cutter within the industry
6. Acquire pattern cutting skills to correctly cut out patterns in fabric
7. Use a sewing machine correctly

Our Students

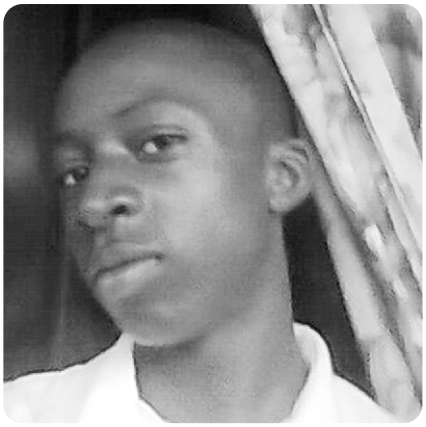


Adeoti Oluwafemi

I can sincerely say the training was the best I've ever had in Basic and Electrical installations. I did not only gain the certification but also gained the ability to work on small Electrical components *(resistors and diode)* to the bigger ones *(Transformers, Distribution boxes, meters and three phase distribution systems)*.
Most importantly, I now know the principles of ohm's Law because most of the principles of Electricity are based around it.

Mayungbe Oluwatomiwa

The SkillUp Mechatronics program was a training I acquired so much knowledge, both in and out of the class. The instructors and team were highly accommodating and friendly which then created a conducive environment to learn.
I appreciate the team for creating such avenue for young people like me to learn.



Godwin Christian

I learnt about resistors/types/colour codes of a resistor and how they work. I also came across Scientific/ Engineering notations and their calculations, which I did not know.

I also learnt how to use a variable resistor to serve as a voltage doubler. I was also exposed to transformer types, testing voltages on the input and output with an ammeter.

It really was a privilege.
A BIG THANK YOU to the SkillUp Team

> "...I can sincerely say the training was the best I've ever had in Basic and Electrical installations..."
>
> Adeoti Oluwafemi
>
> Electrical/Electronics

Our Students

Muritala Sile

I appreciate the privilege of being a partaker of the SkillUp Electrical Installation training. I never knew the relevance of ampere, voltage and resistance calculations in electrical installations until I got to the training.

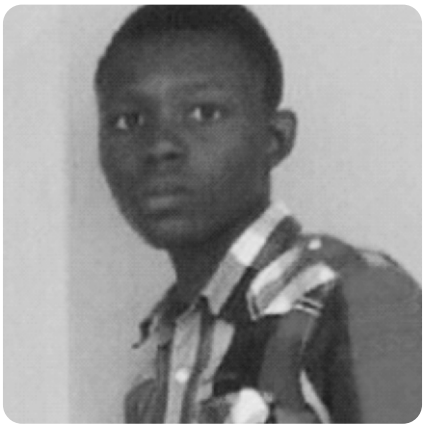
Prior to the training, I worked without observing safety precautions, but learnt during the training that safety is considered first in all engineering working areas.
I recollect wiring a whole building without the use of ground/earth, but got to know the usefulness after the training.

Finally, after the training, I got to know how to make a connection of a single and three phase motor with the different types of connections perfectly. I really appreciate the value added to my life.
It's SkillUp...*our vocation our future* indeed.

> "...The training gave me insight to see opportunity in every difficulty and building the right attitude."

Inaku Joseph

Electrical/Electronics



Damola Awesu

I attended the SkillUp Summer Boot Camp offering the module "Troubleshooting Mechatronics Systems". The programme was a life and view changer for me as it helped me see my chosen course of study in a new light. I saw live automation equipment and the application of everything I learnt during the programme. I can say that this is one decision I've made that I will never regret.

> "...I recollect wiring a whole building without the use of ground/earth, but got to know the usefulness after the training."

Muritala Sile

Electrical/Electronics

SKILLUP TVET LIMITED

Government Technical College, Ikorodu
City & Guilds Centre No 834027
28, Obafemi Awolowo Way
Oke Ota-Ona, Ikorodu

T: +234-809-999-2508
E: info@skillupng.com

facebook.com/skillupng

@skillupng

www.skillupng.com