


NAKAWA VOCATIONAL TRAINING INSTITUTE

PROSPECTUS

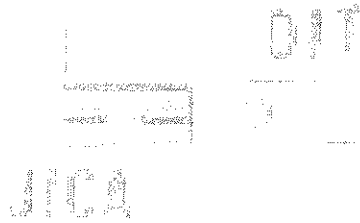


NAKAWA VOCATIONAL TRAINING INSTITUTE
Directorate of Industrial Training
Business/Technical/Vocational/Education & Training
Ministry of Education and Sports
P.O Box 20121, Kampala Uganda, Tel: 220935
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' Central to your Skills, Knowledge and Attitude '



NAKAWA
VOCATIONAL
TRAINING
INSTITUTE



UGANDA - JAPAN

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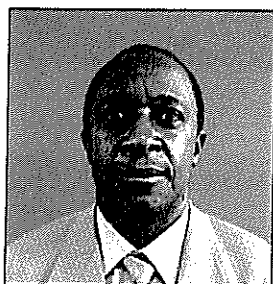
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Nakawa Vocational Training Institute Profile



Mr. Abasi Tuzinde
PRINCIPAL



Mr. Yutaka Yamami
CHIEF TECHNICAL ADVISOR JICA

1970's

Nakawa Vocational Training Institute was founded in 1971 by the Government of Uganda in cooperation with Japan International Cooperation Agency (JICA), with the prime objective of enhancing the vocational skills training of the young men/women suitable for the growing industries in Uganda. The bilateral project type cooperation gave birth to a highly equipped institution in terms of machinery, equipments and correspondingly adequate manpower.

The economic and industrial retardation that engulfed the country following the declaration of economic war in 1972 by the Military Junta in power, affected the realization of the initial goal of the project. The institution experienced the departure of Japanese Experts and the termination of technical assistance from Japan towards the sustenance of training activities.

1980's

However, the institution hopes were resurrected with the advent of the NRM Government in 1986, whose national development policies originally phrased as the 10 Point Programme, renewed the economic and industrial activity and hence rekindled the institute as a player in the development / training of skilled labour force once again. Whereas the hopes resurfaced, at that material time, the institute infrastructure that included: - Buildings, Machinery, Equipment and tools, were all in a dilapidated state, thus could not support training activities effectively.

1990's

The original goal and training objectives for which the bilateral cooperation between the two governments was founded had been lost, but once the NRM Government ushered in place / restored political order and national Economic reconstruction programmes, the government of Japan through its executing Agency JICA, came back to rescue and re-ignite the cooperation that existed long at hand.

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The current Uganda Government requested that of Japan to assist in the rehabilitation of the Institute. During 1997 – 2002, the Institute underwent the 2nd phase of the project supported by both governments of Uganda and Japan, and the following were effected:-

- Rehabilitation and expansion of the Institute, Instructor training (both locally and aboard) and implementation of skill training.

2000'S

In the following period (May 2002 – May 2004) for consolidation of Project achievements, response to new Industrial training needs in Electricity (Factory Automation / Programmable Logical Control), Electronics (Digital Technology) and Automotive (Electronic Fuel Injection) were effected.

During the initial follow up period, the demand for the new technology in the above fields was identified also in neighbouring countries, which necessitated planning for Advanced Technological Training Programme. The programme known as Third Country and In country Training is currently being implemented for Instructors from Kenya, Tanzania, Zambia, Eritrea and the hoist country Uganda. It is implemented twice a year (January – March and July – August)

Plans are underway for the next phase of the project which will be targeted towards introduction of a fully fledged Instructor Training department at the Institute which will be intended for developing Vocational Instructors to a University level as this has been identified as a serious training need.

Institute Capacity

The Principal is the head of the institution and is assisted by two Deputy Principals who assist him in the day to day administrative and management requirements. There are eight major sections directly involved in the execution of the training programmes. In addition to enhancing the instructors' abilities, Pedagogy section addresses the Instructors' effective training skills as applied in PROTS (Progressive Training for Instructors). All the 7 sections are managed by one Senior Instructor / Head of Section (HOS), 3 Instructors and 2 Assistant Instructors. All these Instructors have performed their duties as counterparts to JICA Experts who have been attached to each section, thus the technical transfer. The institute receives short-term experts from time to time when it is necessary, for specialized training in different areas.

Courses

Faced with the new challenges of Human Resource Development to qualify the skilled labour force for the modern growing industries and entrepreneurship, the rehabilitated institute being the current most equipped institution of the kind in the country, has reorganized its training programmes in the following areas:-

Engineering Craft courses

1. **Electronics**
2. **Electricity**
3. **Machining and Fitting**
4. **Motor vehicle**
5. **Wood working**
6. **Sheet metal and plumbing**
7. **Welding and fabrication**

Training Programmes

There are four programmes of training that the institute conducts namely: -

1. **Basic Training Programme** – Full Time
2. **Basic Training programme** – Part Time
3. **Upgrading training Programme**
4. **Tailor made Programme**

Pedagogical Instructors' Training Programmes

1. **Third and In country training programme**

In the fields of: -

- **Digital Technology,**
- **Programmable Logic Control / Sequential Control Technology and**
- **Electronic Control Fuel Injection Engines / Automatic transmission technology.**

2. **Progressive Training Systems for Instructors (PROTS)**

4 Duration Of The Training

1. Basic Training Programme – Full Time

This is a 2 years programme and at the end, trainees graduate with Uganda Craftsman Certificate Grade 1 and UNEB Craft Certificate Part I and II. Trainees are also taught entrepreneurship skills to encourage some of them go for self-employment on graduation.

2. Basic Training Programme – Part time

Evening class is a long time programme of 2 hours a day, 5 days a week and runs for 2 ½ years and is meant to assist those already in gainful employment but would like to compensate for the technical qualification that eluded them due to common social problems and other unspecified factors.

3. Upgrading Training Programme

This is a short term training programme that could last from 1 week to 6 weeks. It favours those already in gainful employment and would like to update their skills and abilities with the arrival of new Industrial Technology in the technical and theoretical field of Craftsmanship.

4. Tailor-made Training Programme

This is a short-term programme specially arranged to address the individual needs or the employer's requirements of new occupational qualifications.

5. Third Country and In country Training Programme

This is a training programme intended to transfer modern technologies to practicing instructors in the fields of Electronics, Electricity and Motor vehicle. It is a 6 weeks course conducted 2 times in a year.

6. Progressive Training Systems for Instructors (PROTS)

This is a short course conducted between 1 to 2 weeks and is conducted once every year and the coverage include: - Identifying training needs, drawing up a programme, basics for teaching and training, developing lectures, basics for developing practice and developing training evaluation.

Recruitment

Recruitment for basic, both fulltime and part time starts mid April every year, where advertisements are run in the news media and the applicants are taken mainly from "O" level or its equivalent. Applications duly filled in are returned to the Registrar's office by mid May and thereafter, the short listed applicants undertake an interview at the end of May, for the successful applicants to report for training during the 1st week of August of each year.

Role Of JICA

According to the past agreements, the JICA experts assisted the Ugandan staff as counter parts and by the end of their stay the counterparts had gained rich technical know how, improved skills / abilities and experiences from experts through technology transfer in the related fields for onward sustainability of the project.

The Chief Technical Advisor (CTA) for Vocational Instructors' Training, currently advises the Principal and supervises the project financial flow of the donation. The JICA experts have been attached to respective sections of their expertise.

Achievements Of Nakawa VTI

Since the training activities started in April 1998, the Institution has enrolled as indicated on the next page.

Some of the organizations that have noticeably established links with Nakawa Vocational Training Institute are:

Nile Breweries

Sasakawa Global 2000

Kinyara Sugar Works

UNIDO (United Nations International Development Organization)

Rwenzori Beverage Co.

Kakira Sugar Works

Uganda Breweries

Kibale Local District Administration

Mulogo Paramedical Department

Coca – Cola Company.

And others.



The table indicating Annual in-take since Training Activities started in April, 1998.

SECTION	Basic Training Full time 1998				Basic Training Part time 1998				Basic Training Full time 1999				Basic Training Part time 1999				Basic Training Full time 2000				Basic Training Part time 2000				Basic Training Full time 2001				Basic Training Part time 2001			
	Applications		Enrollment		Applications		Enrollment		Applications		Enrollment		Applications		Enrollment		Applications		Enrollment		Applications		Enrollment		Applications		Enrollment		Applications		Enrollment	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
Electronics	Nil	Nil	Nil	Nil	58	11	15	3	36	2	31	2	74	4	17	4	38	3	33	3	73	7	11	7	34	Nil	20	Nil				
Electricity	27	4	15	5	16	2	14	2	55	6	13	5	39	Nil	37	Nil	53	3	39	Nil	76	6	12	6	35	2	18	2				
Machining	21	1	19	1	16	Nil	10	Nil	36	5	14	4	21	Nil	19	Nil	29	1	18	Nil	35	2	16	2	20	Nil	19	Nil				
Motorvehicle	42	1	20	1	15	Nil	12	Nil	61	Nil	20	Nil	35	Nil	28	Nil	60	2	42	Nil	95	Nil	18	Nil	41	Nil	20	Nil				
Woodworking	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	9	Nil	8	Nil	1	Nil	Nil	Nil	18	Nil	5	Nil	18	2	17	1	10	1	6	1				
Sheetmetal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	20	Nil	17	Nil	6	Nil	6	Nil	38	Nil	21	Nil	49	Nil	18	Nil	24	Nil	15	Nil				
Welding	22	Nil	18	Nil	Nil	Nil	Nil	Nil	22	Nil	19	Nil	6	Nil	6	Nil	23	Nil	10	Nil	22	Nil	18	Nil	20	Nil	15	Nil				
Total	112	6	72	7	48	2	36	2	261	22	106	12	144	2	127	2	295	10	173	3	368	17	110	16	184	3	115	3				
Percentage (%)	95	5	9	9	96	4	95	5	92	7	90	10	99	1	96	2	97	3	93	7	99	2	96	4	98	2	98	3				

SECTION	Basic Training Full time 2002				Basic Training Part time 2002				Basic Training Full time 2003				Basic Training Part time 2003				Basic Training Full time 2004				Basic Training Part time 2004			
	Applications		Enrollment		Applications		Enrollment		Applications		Enrollment		Applications		Enrollment		Applications		Enrollment		Applications		Enrollment	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
Electronics	100	15	19	7	39	5	39	5	109	11	17	6	43	3	42	3	110	10	16	4	48	4	44	4
Electricity	62	5	23	2	31	1	31	1	64	3	22	3	43	1	32	1	73	4	15	3	45	0	28	Nil
Machining	30	5	17	4	16	1	16	1	59	2	20	2	14	Nil	14	Nil	40	5	13	4	14	1	12	1
Motorvehicle	80	Nil	25	Nil	38	1	35	1	110	2	19	1	33	Nil	33	0	107	2	16	2	50	2	46	1
Woodworking	20	1	12	1	10	Nil	5	Nil	20	Nil	14	Nil	7	Nil	7	Nil	25	1	6	Nil	8	0	6	Nil
Sheetmetal	30	1	24	1	23	Nil	20	Nil	51	1	24	1	28	Nil	28	Nil	70	2	17	2	32	0	28	Nil
Welding	20	2	21	2	14	Nil	14	Nil	29	Nil	19	Nil	6	Nil	6	Nil	50	1	18	Nil	24	0	19	Nil
Total	342	29	141	17	169	8	161	8	422	19	135	15	174	4	162	4	475	25	105	15	221	7	183	6
Percentage (%)	92	6	89	11	95	4	95	5	95	4	90	10	99	2	96	2	95	5	88	13	97	3	97	3

Electronics Section

Established in 1998 as one of the new sections. It began training activities in May 1998 with recruitment of its first pioneer trainees.

Its first goals and objectives on training were based on Radio, Television (Traditional Electronics) and Domestic electronics.

With the coming of JICA experts coupled with a team of hard working Instructors, made a tremendous change / contribution towards revising of the curriculum to match the modern Global Electronics technology.

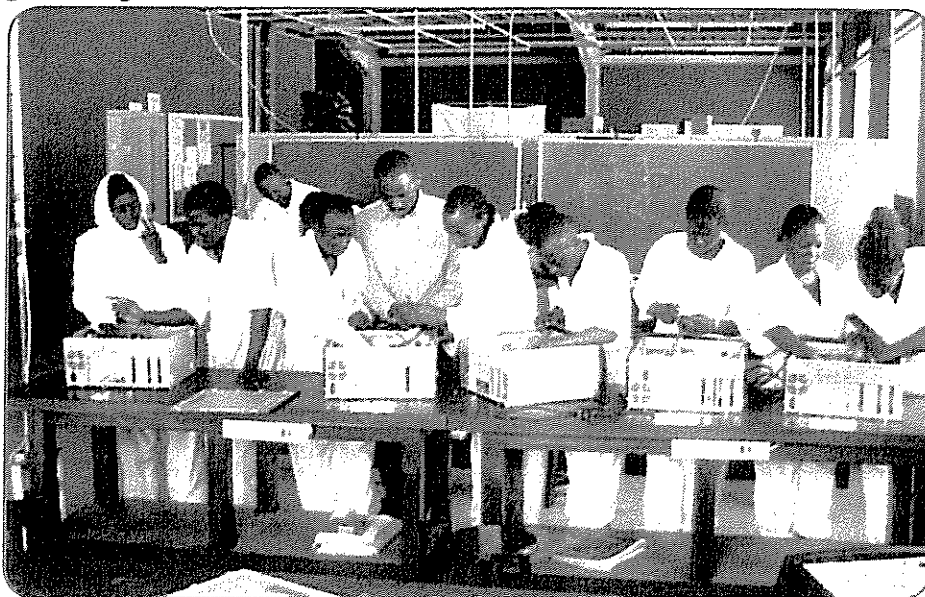
This aims at qualifying Craftsmen and Craftswomen in the fields of:-

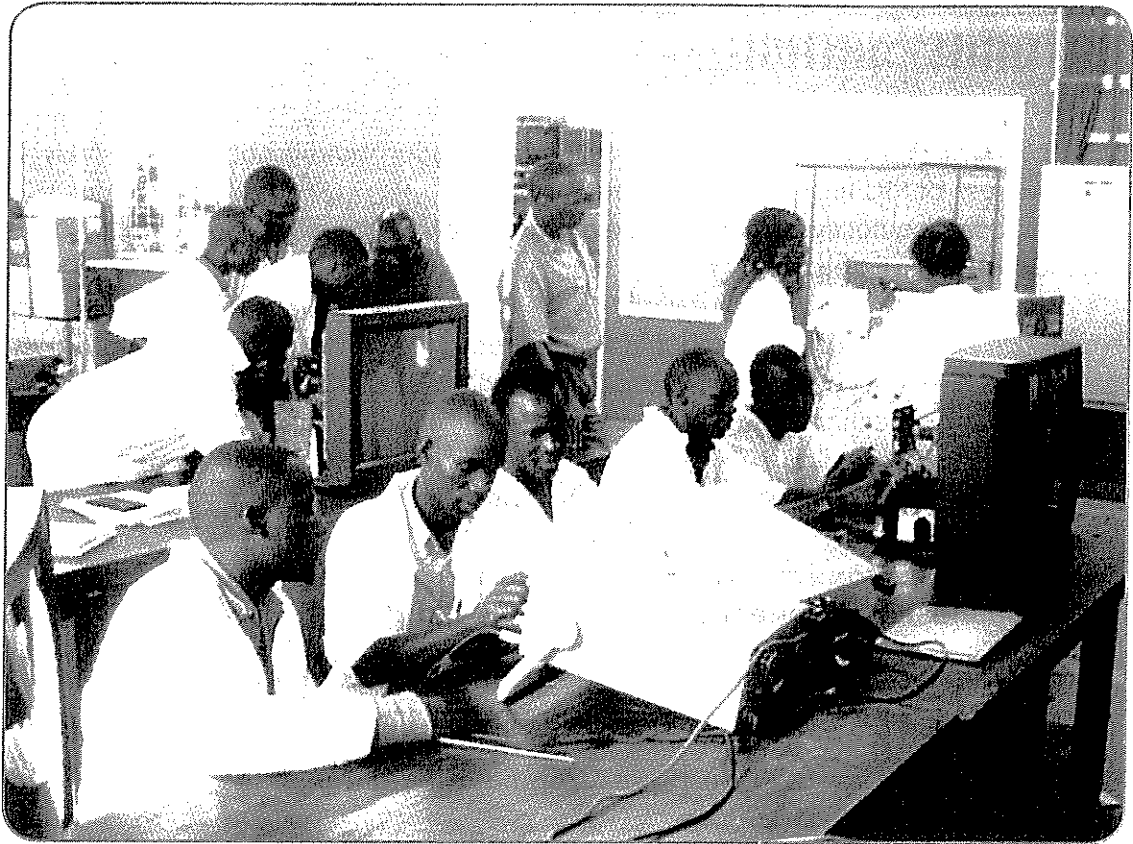
1. **Analogue Electronics I:** This includes Electronic Tools, Equipments, Components, etc.
2. **Analogue Electronics II:** This includes Radio, Television and Traditional Domestic / Factory Electronics
3. **Digital Electronics I:** This includes Combinational and Sequential Digital circuits
4. **Digital electronics II:** This includes Micro-processors programming and programmable Logic Devices
5. **Computer System:** This includes Software, Hardware-maintenance, Networking and programming.

Capacity

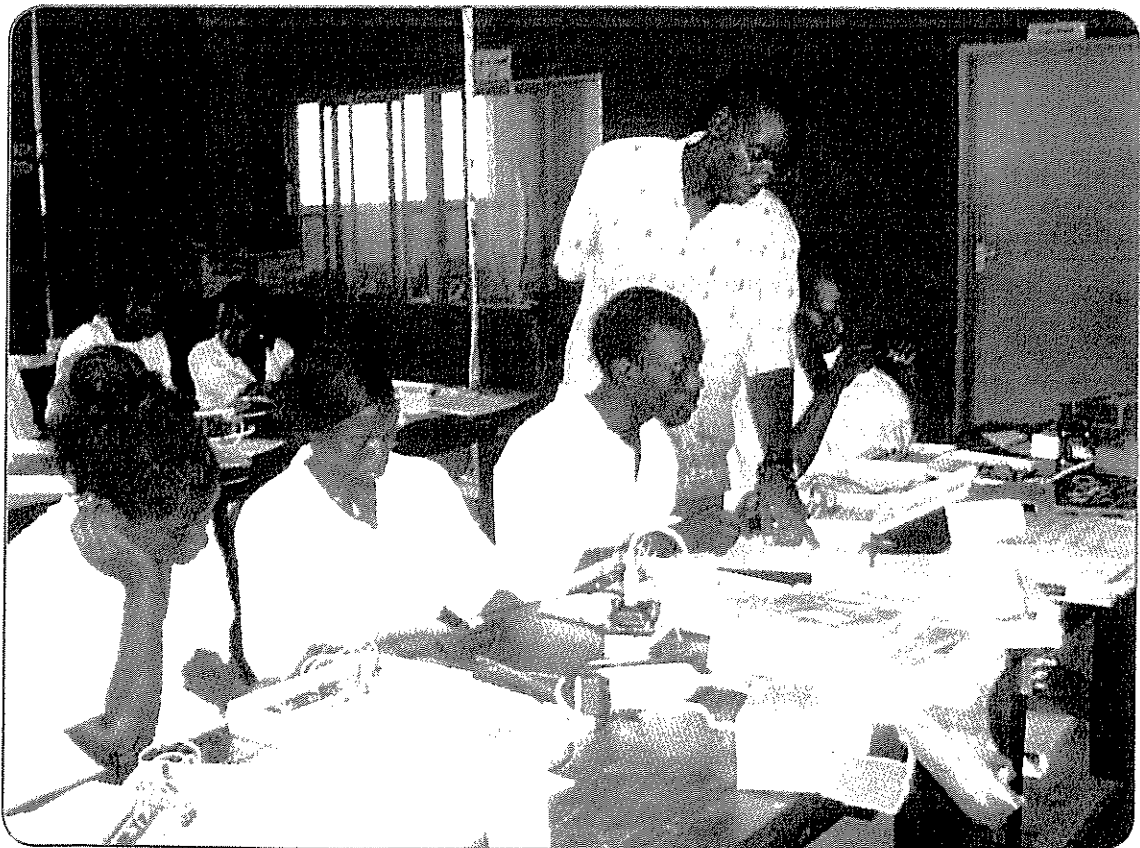
1. Can accommodate a maximum of 20 trainees for effective training.
2. Fully equipped with modern facilities for training in the field of Analogue Electronics, Digital electronics and Computer system for both basic and Upgrading training.

Instructor giving Instructions to trainees during a computer Systems (Hardware) practical class





Analogue Electronics II practical class



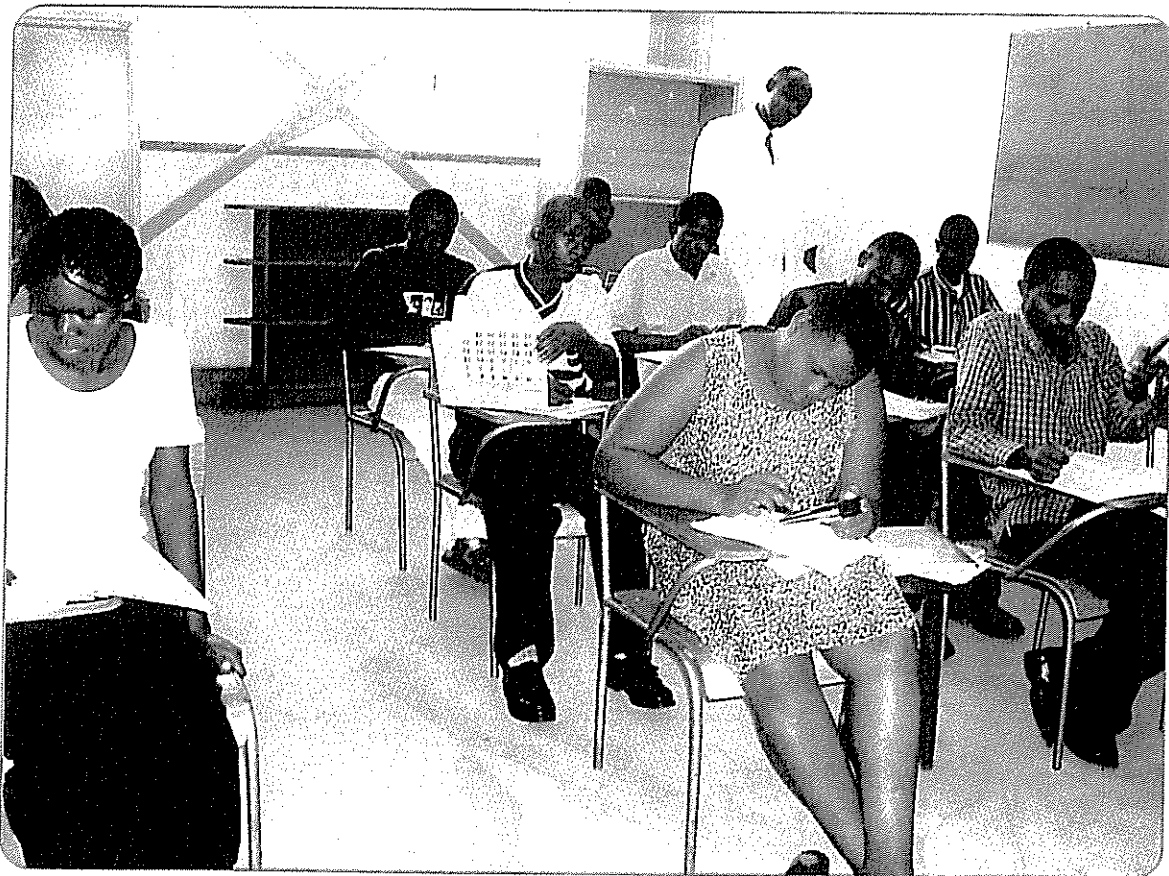
H.O.S Electronics giving instructions to trainees during Digital Electronics I practical class

Electricity Section

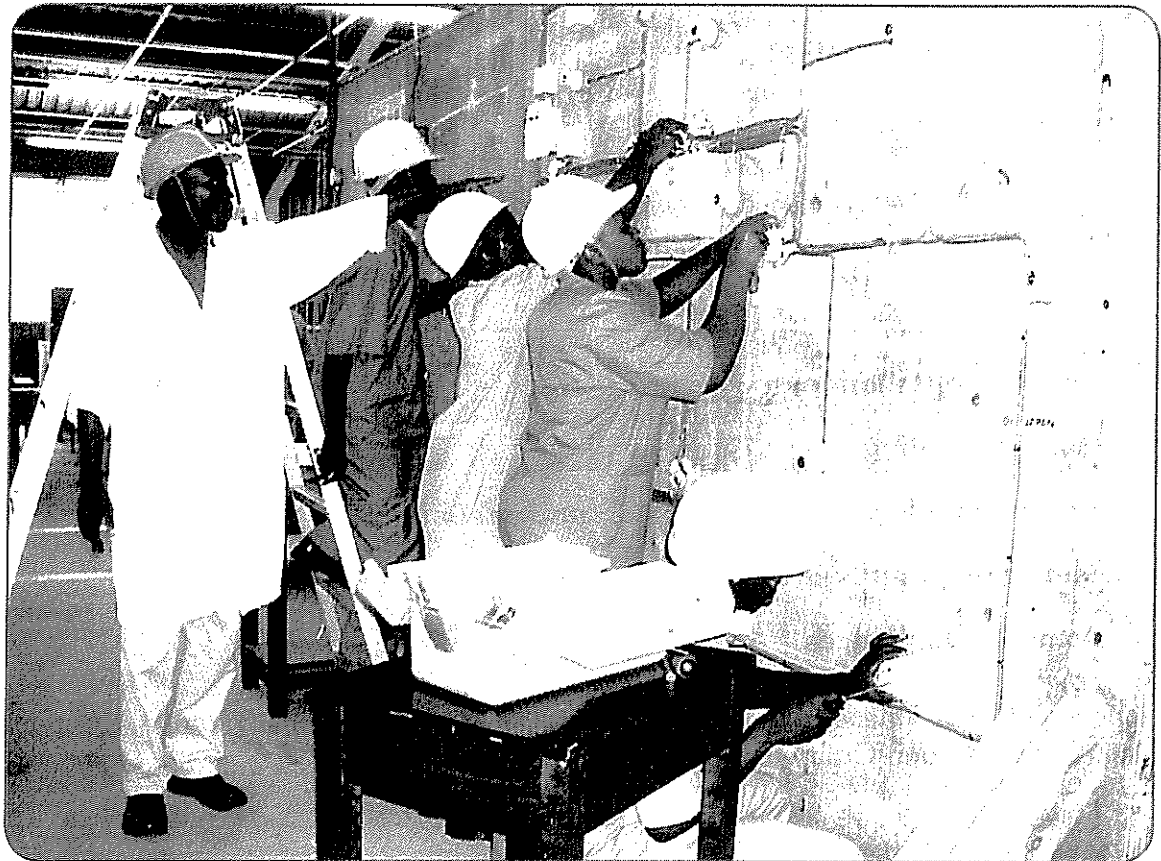
It was one of the Pioneer sections when Nakawa Vocational Training Institute opened in 1971. The section which has a capacity to handle 20 trainees per session, aims at qualifying skilled Craftsmen and Craftswomen (Electricians) in the following courses:-

1. Electrical installation and fitting
2. Motor rewinding
3. Programmable Logic Control (PLC) and Sequential Control
4. Refrigeration and air conditioning.
5. Domestic appliances.

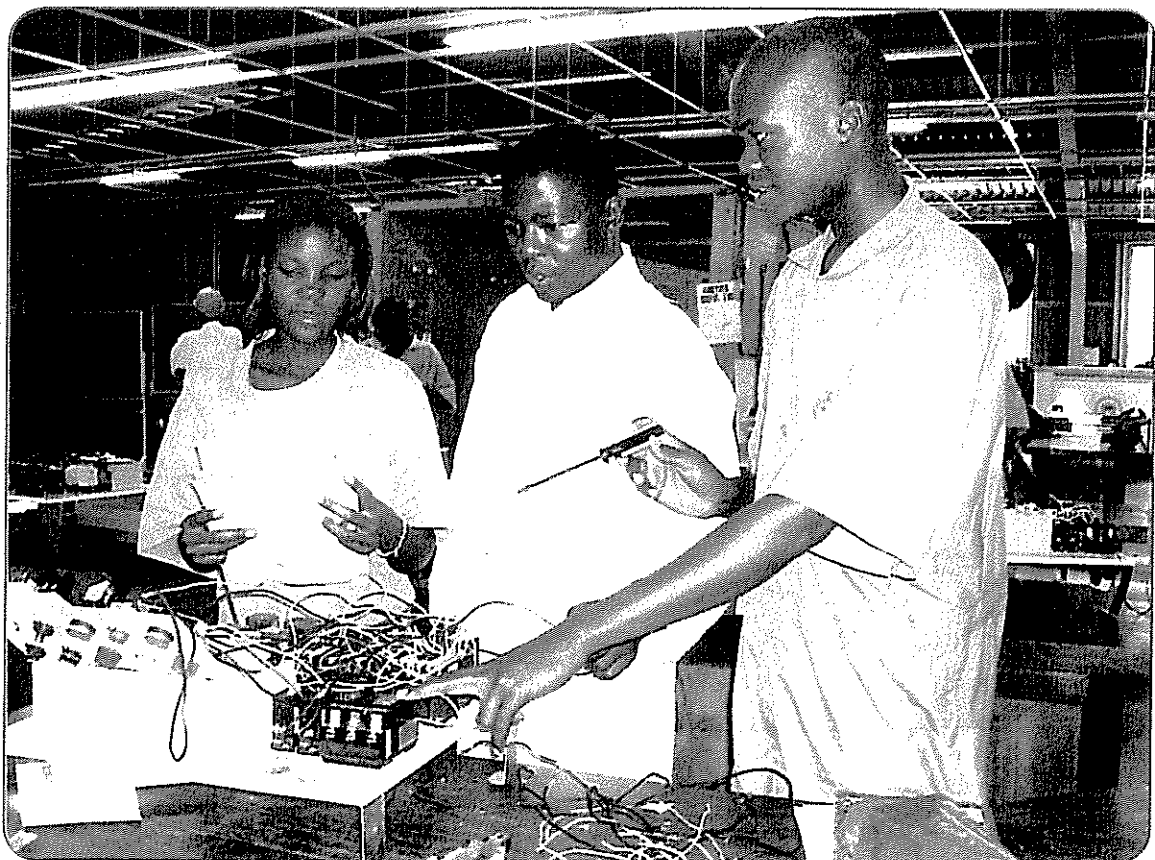
After rehabilitation and expansion, the section has realized a higher annual out put of skilled Craftsmen and Craftswomen (Electricians).



Trainees attending a theory lesson



Trainees practice domestic electrical Installation system



Trainees practice sequential control system

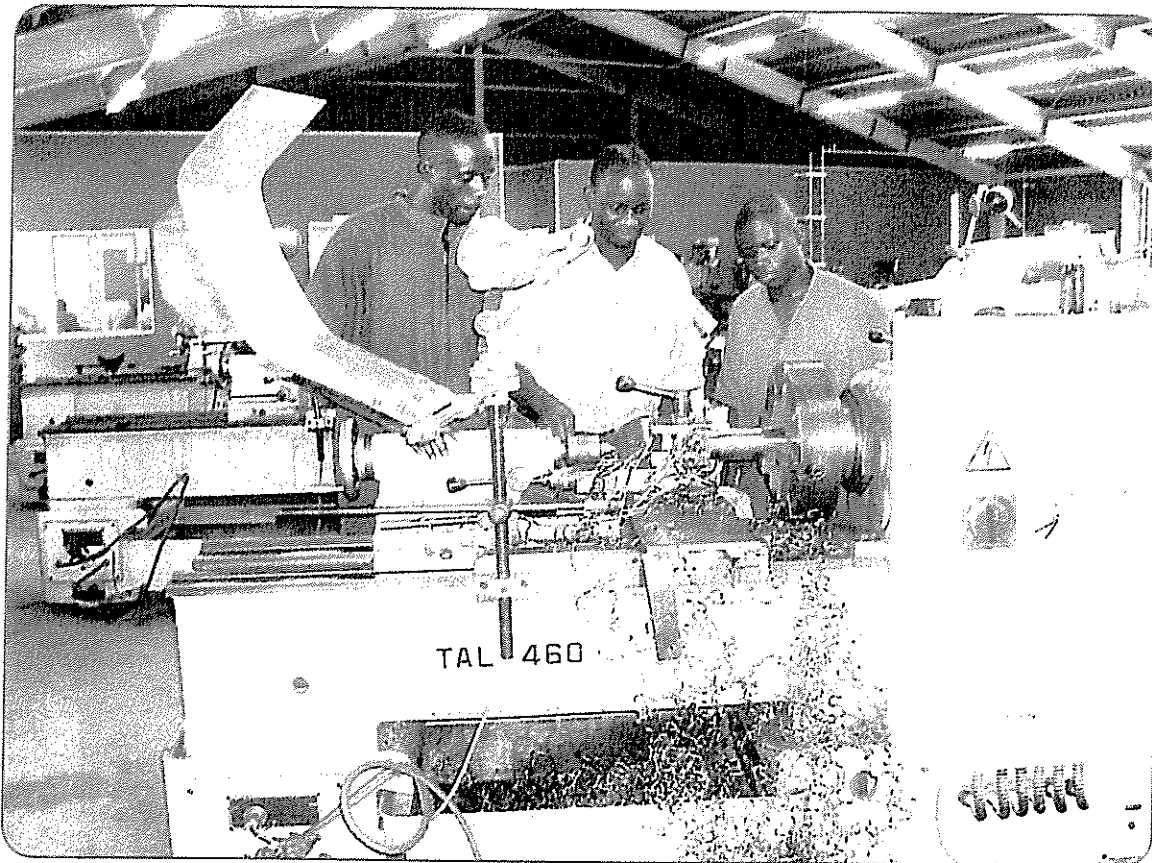
Machining & Fitting Section

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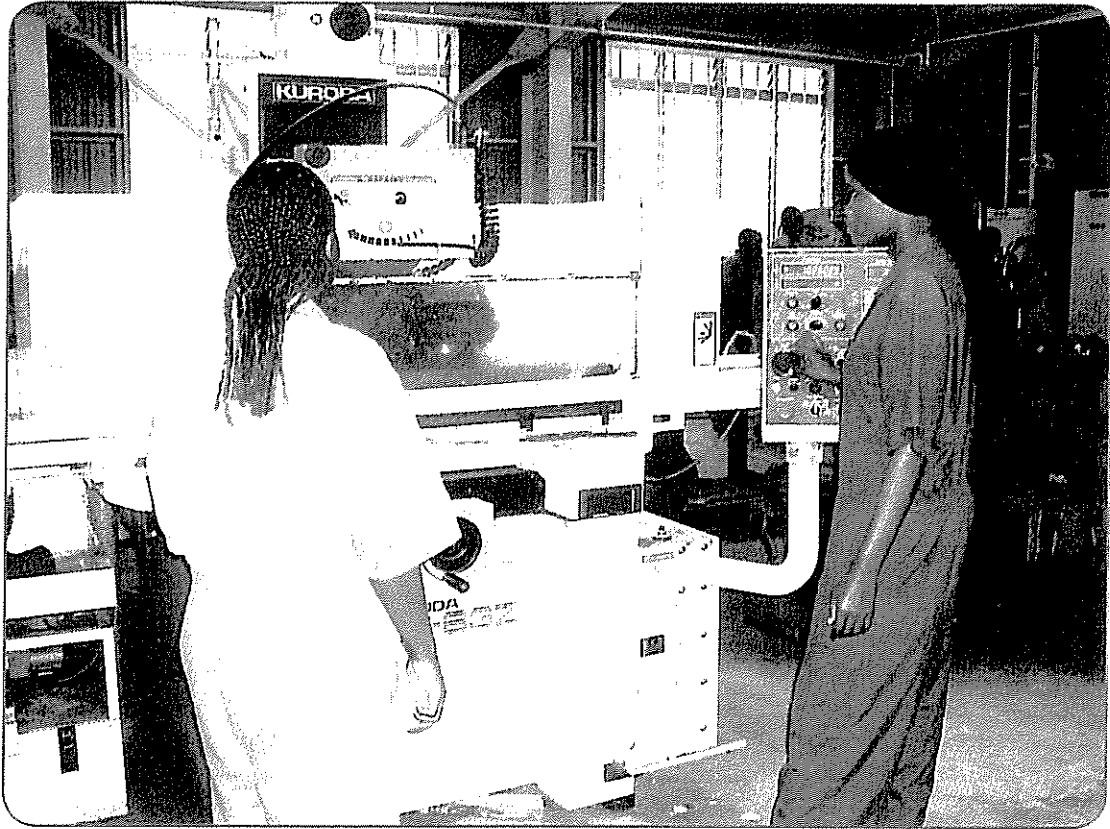
Machining is one of the seven sections that offer courses rich in skills with a broad range of quality training programmes.

The section enjoys some of these impressive features: -

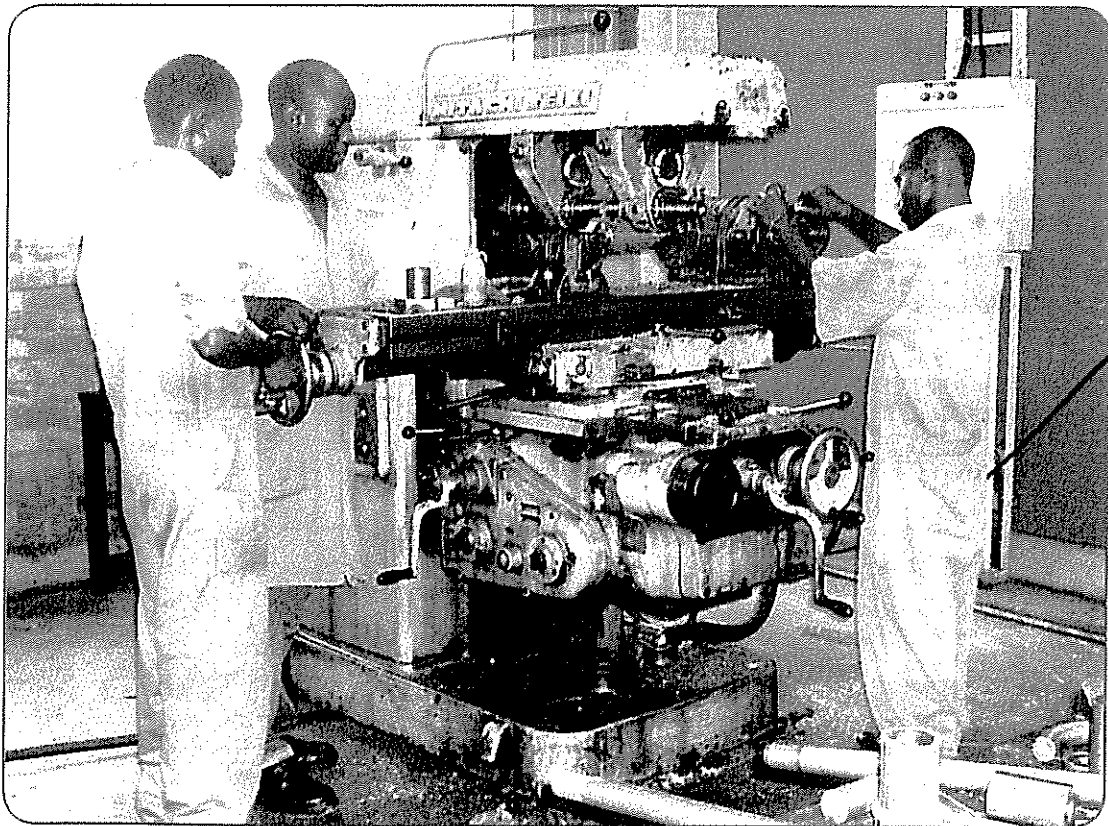
1. A very well equipped workshop with machines named below:-
 - Lathe Machines
 - Shaping machines
 - Slotter machines
 - Planner machines
 - Grinding machines (Surface and cylindrical grinding)
 - Radial Drilling machine
 - Gear hobbing machine
 - Hardness testing machine Etc.
2. The course is suitable for both Male and Female.



An Instructor guiding trainees on the lathe machine



Trainees practicing on the surface grinder machine



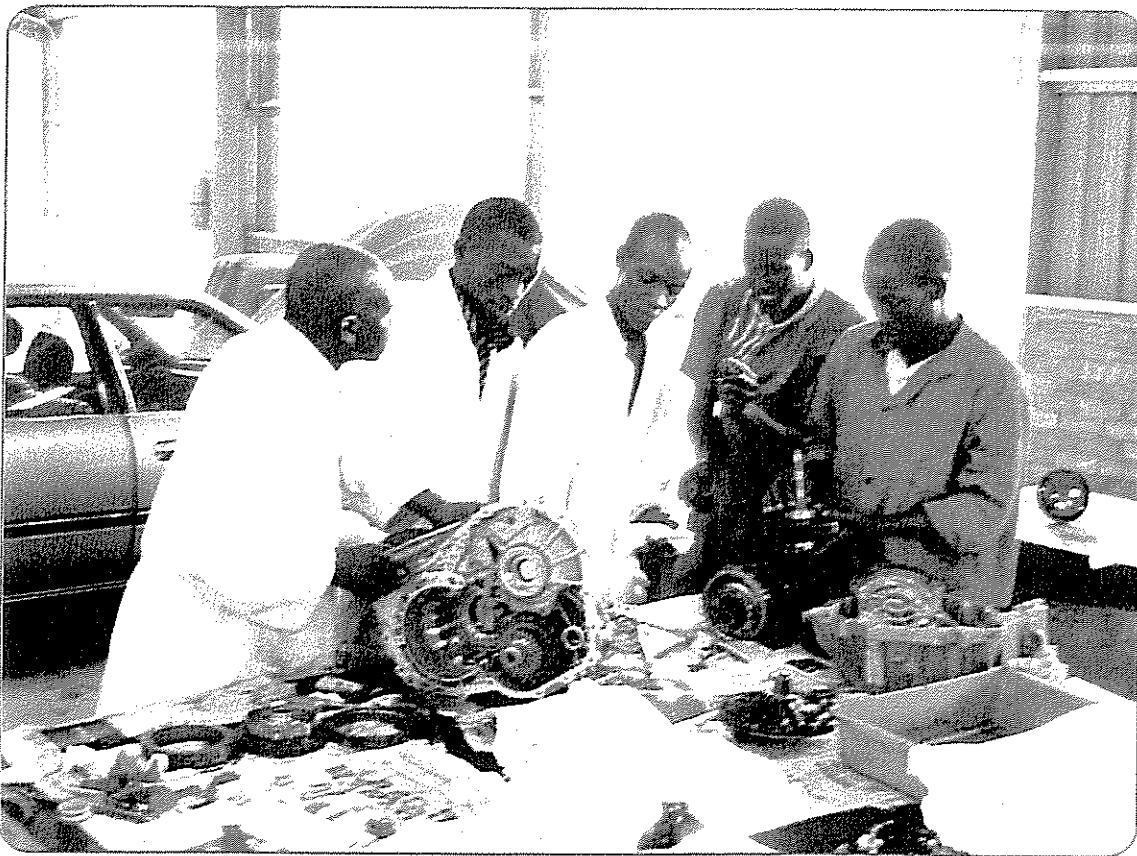
An Instructor (Centre) guiding trainees who are trying to set work on the milling machine

Motor Vehicle Section

Motor vehicle section provides technical knowledge, skill proficiency and attitude in the practical of automotive repair and maintenance. It aims at qualifying trainees in the field of:-

1. Electronic Control Fuel Injection (EFI)
2. Radiator repairing
3. Auto electrical
4. Engine overhauls
5. Body care panel beating / spraying
6. Professional drivers preventive maintenance.

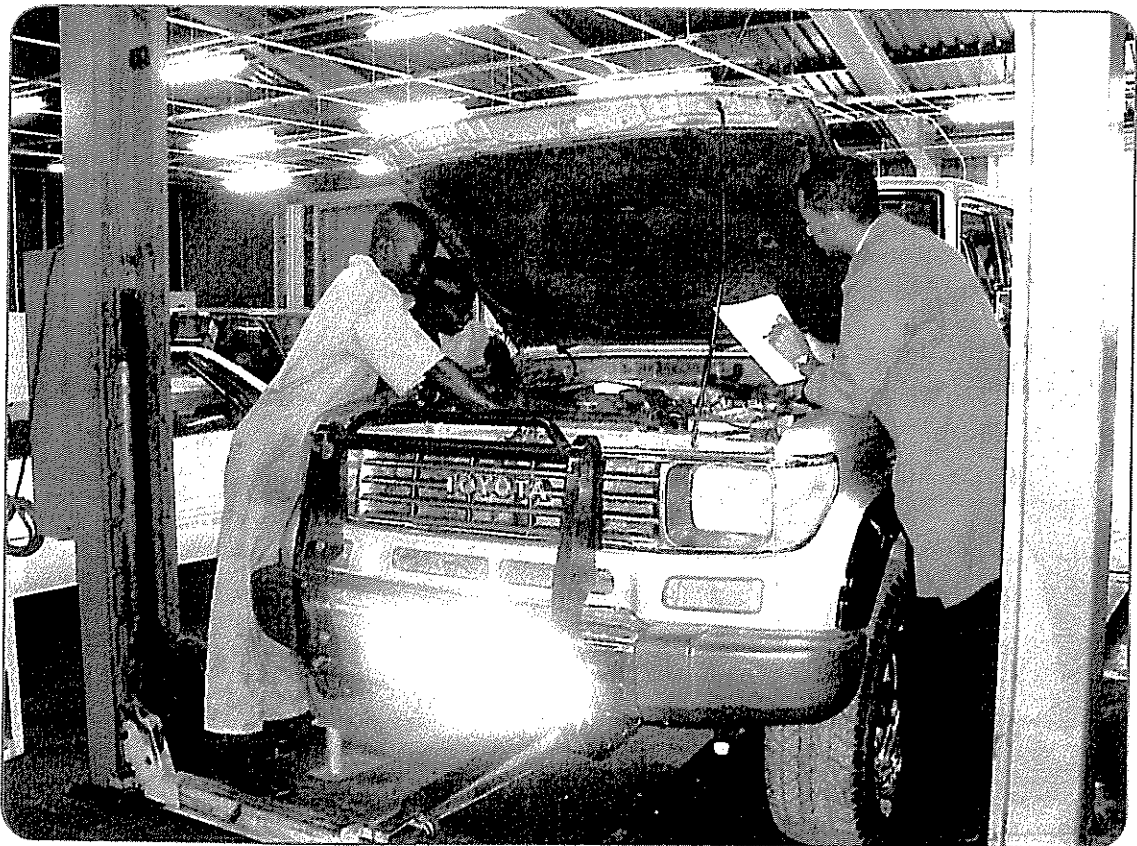
This section has skilled trained instructors who have received technical transfer from JICA experts. In addition the section is well equipped with equipments and tools to meet the modern technological advancement.



In the middle is an instructor training Automatic Transmission



An Instructor imparting skills to trainees about engine tuning



An Instructor training in the Electronic Fuel Injection (EFI) system

Woodworking Section

This is one of the three newly established sections, which commenced the training activities in May 1999.

The training objectives focus on qualifying young men and women in the woodworking field with a bias to:-

1. Maintenance and operation of woodworking machinery
2. Woodworking production technology (Mass production).
3. Basic coating technology for wood products.
4. Upholstery

The section has an intake capacity of up to 20 trainees per course per year. The admission to any of the training programmes is open to both male and female.



An Instructor guiding the trainees make a precision ripping on a rip saw



An Instructor demonstrating how to cut tenon joints on a tenoning machine



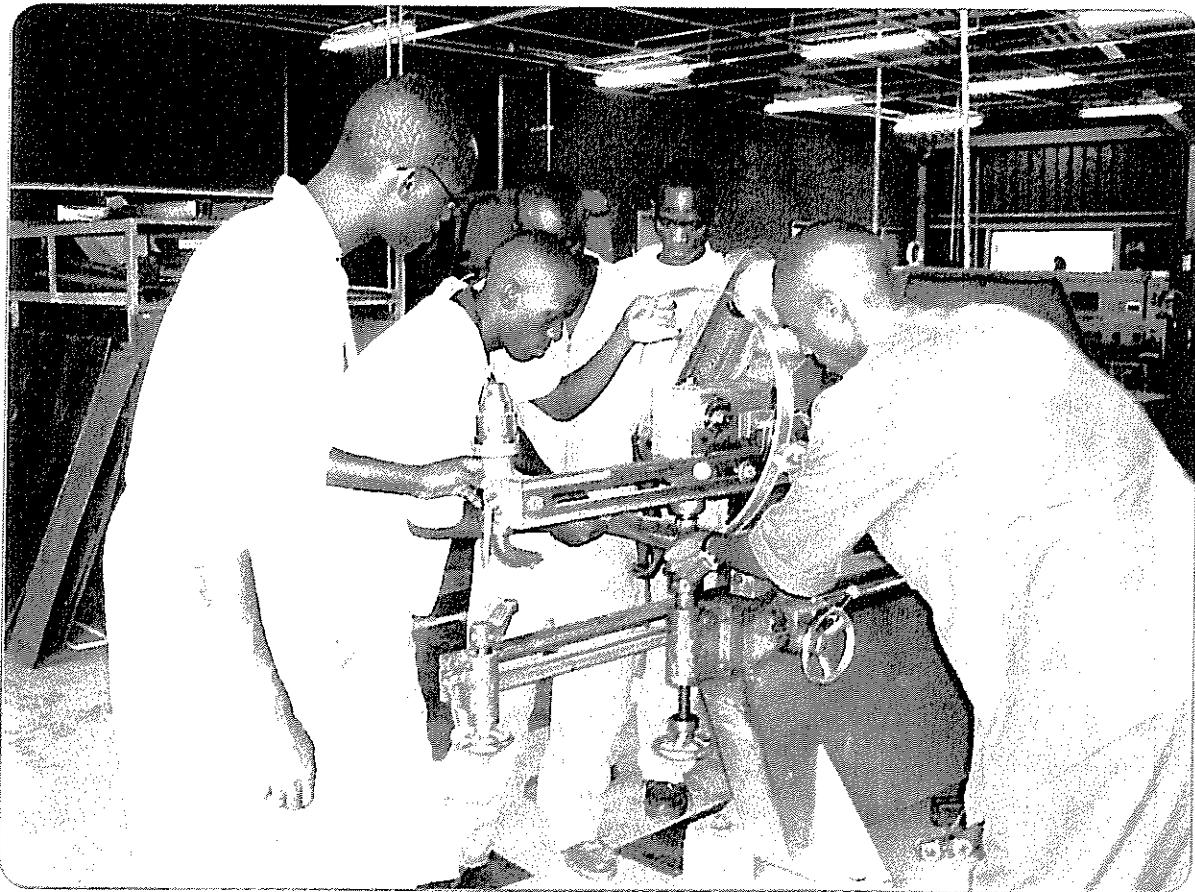
An Instructor demonstrating how to check on the squareness of the module

Sheet Metal & Plumbing Section

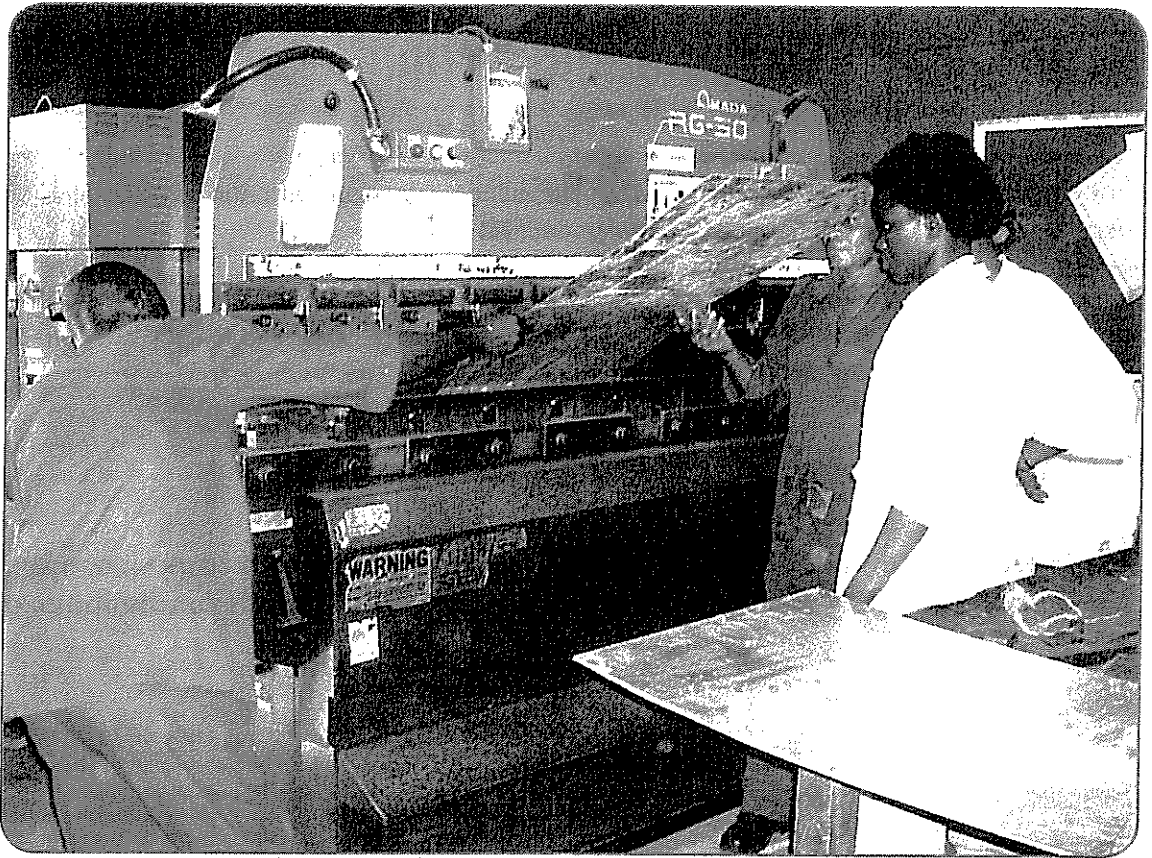
17

Sheet metal section is one of the newly established sections after the rehabilitation and expansion of Nakawa Vocational Training Institute.

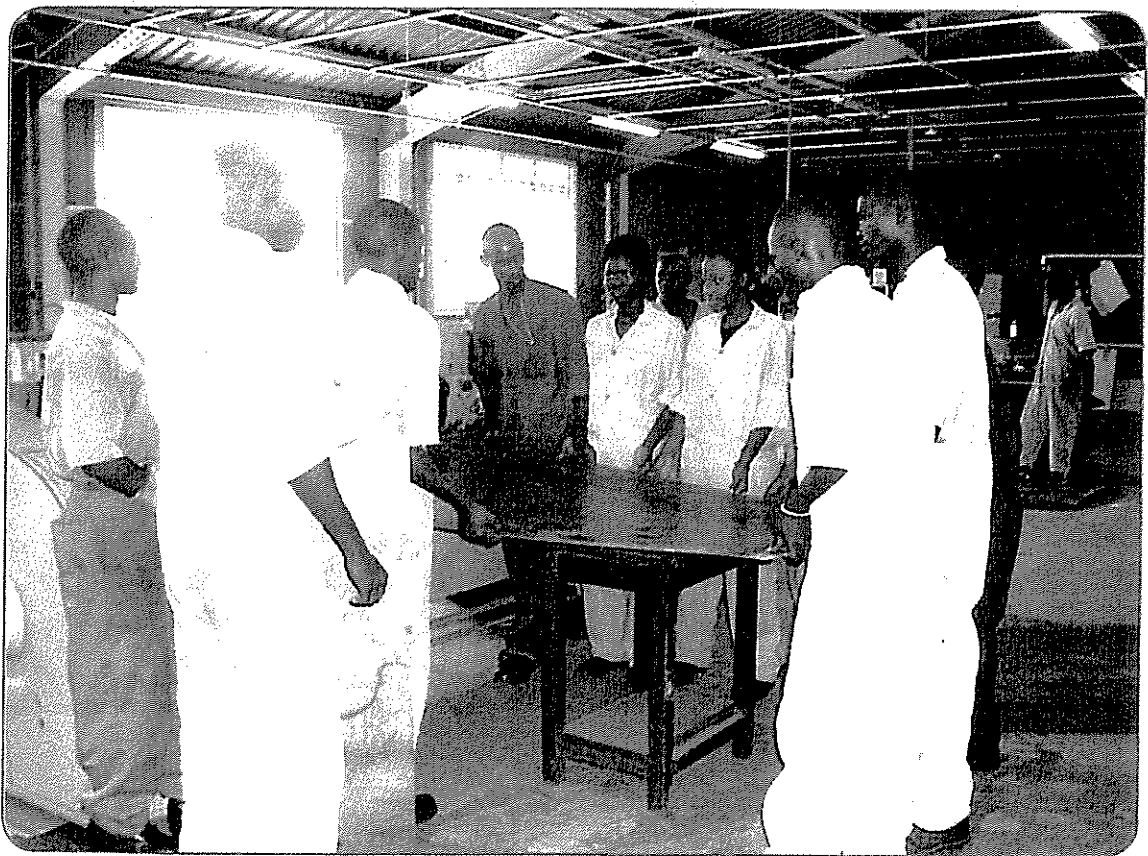
1. Training is conducted in the section to equip the trainees with skills in Sheet metal, Plumbing and Pipefitting.
2. The section is now fully equipped with tools and equipments.
3. In addition to the normal training, the section carries out some income generation activities which help to give the trainees the hands on the job experience.



Instructor imparting skills to trainees using a vibro shear, bearing Galvanised Iron sheets



Trainees with their Instructor using a press brake machine, bending sheets in different shapes



An Instructor demonstrating how to use shearing machine using marked plates

Welding & Fabrication Section

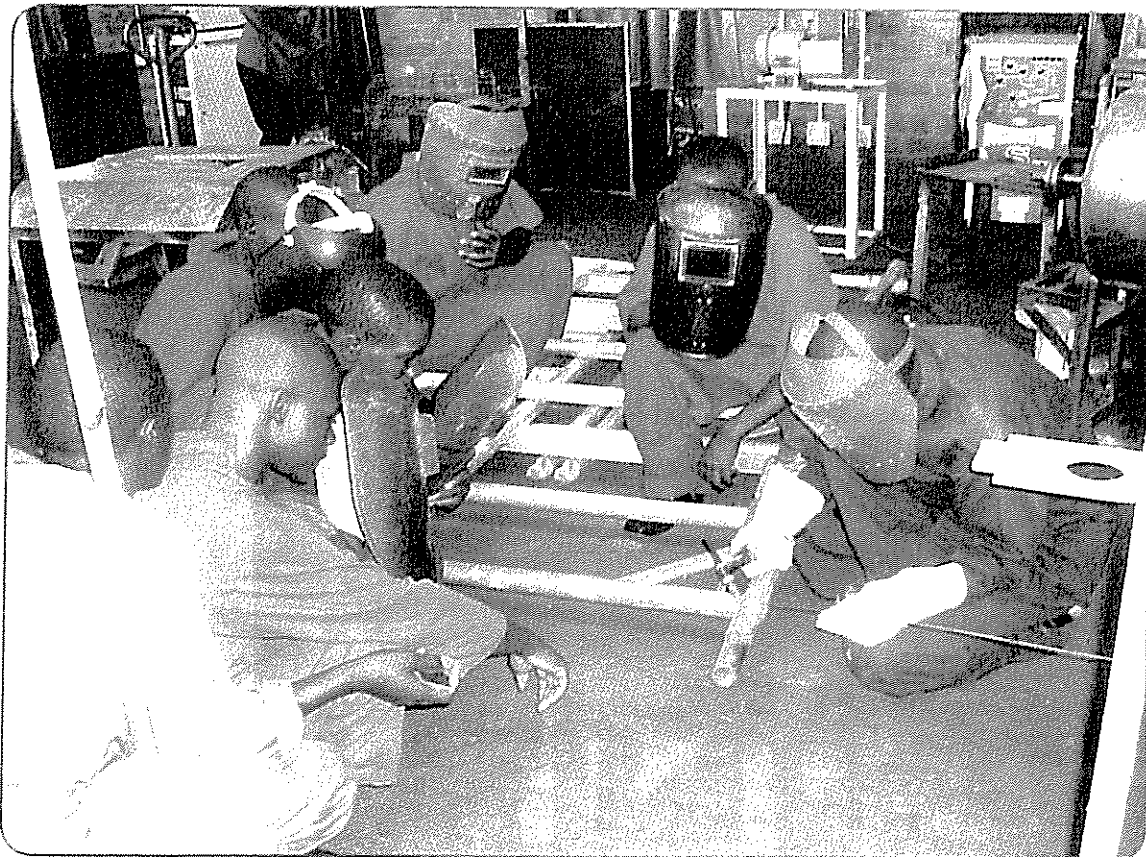
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Welding section is one of the seven sections at Nakawa VTI. The section is well equipped with modern welding equipment and conducts training in welding and fabrication using different welding process namely:-

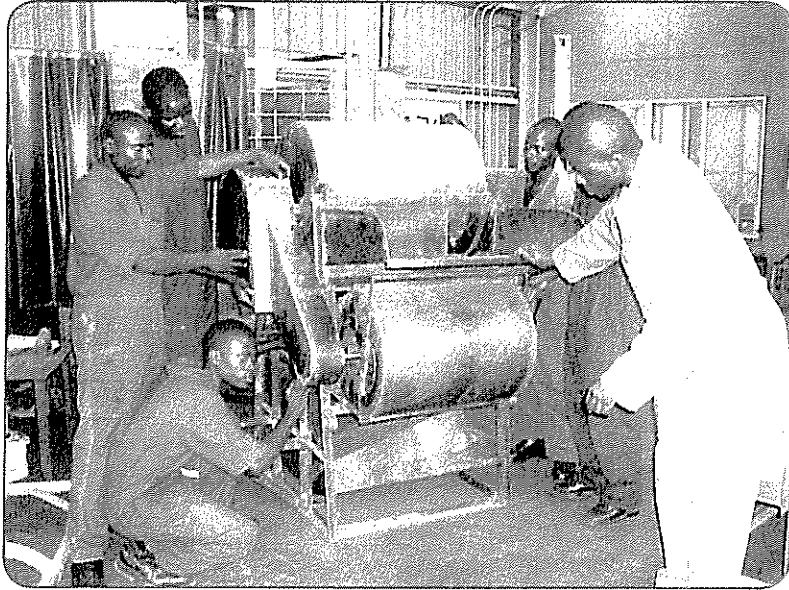
1. Oxy-acetylene / Gas welding
2. Manual metal arc welding
3. Tungsten inert welding (TIG)
4. Metal inert gas welding (MIG)
5. Metal active gas welding (MAG)
6. Sport welding

TIG and MIG are mainly for welding products of Aluminium, stainless steels and their alloys. MAG welding is a semi-automatic process which is used to weld mild steel, cast iron and other alloys.

The course is suitable for both male and female trainees.



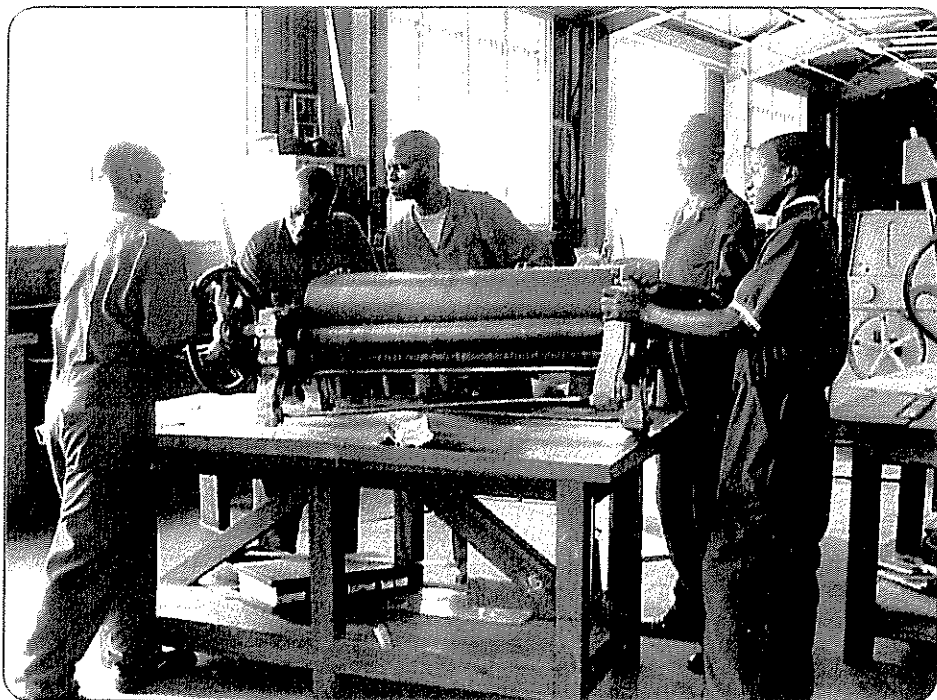
An Instructor training trainees Tungsten Inert Welding (TIG)



An Instructor guiding trainees to assemble the Rice Threshing machine made at the Institute



Trainees under instructions on fabrication work



Welding and Frabrication trainees rolling pipes out of sheet metal

Pedagogy Section

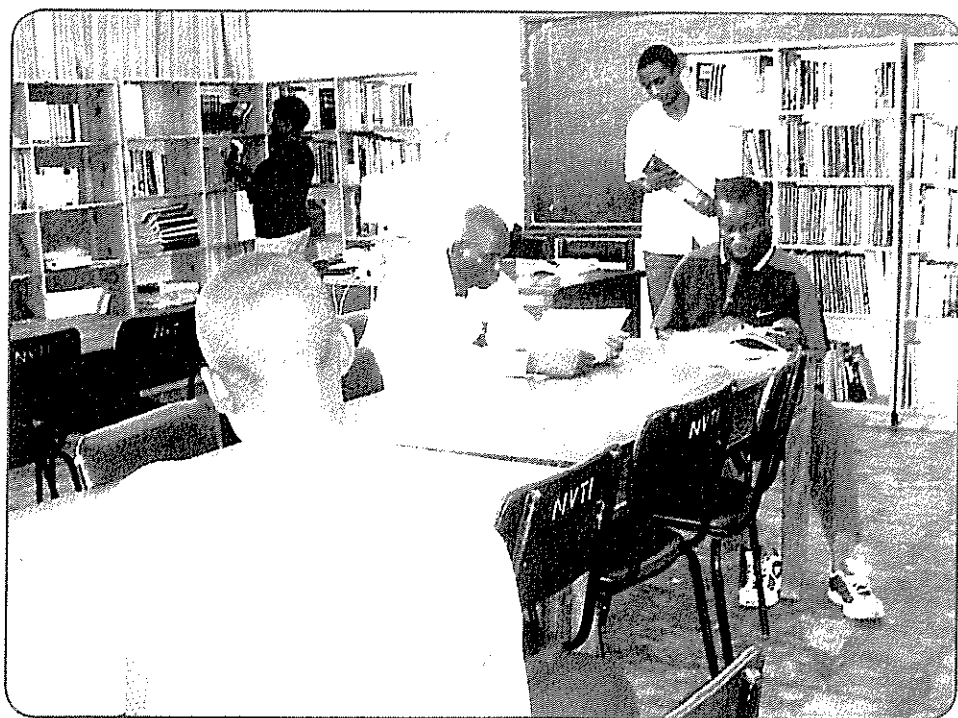
Pedagogy section was created in Nakawa VTI as a new section in the year 2000. It is headed by the Training Manager and supported by the Training coordinator and the Local Examination secretary as well as the entrepreneurship training co-coordinator. The section was established to provide backup support to oversee the smooth implementation of planned course programmes and its delivery include the following:-

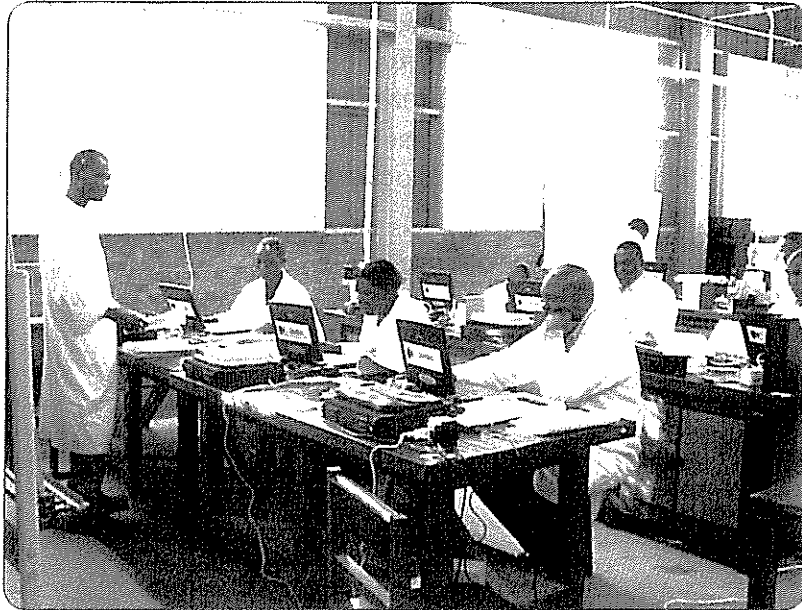
1. Supervision and coordination of course management.
2. Supervision and coordination of curriculum development.
3. Supervision and coordination of training of trainers programme
4. Supervision and coordination of methodology of instruction.
5. Supervision and coordination of development of training software.
6. Supervision and coordination of examinations.
7. Any other relevant activities assigned by the Principal or Deputy principal.

The Library Service

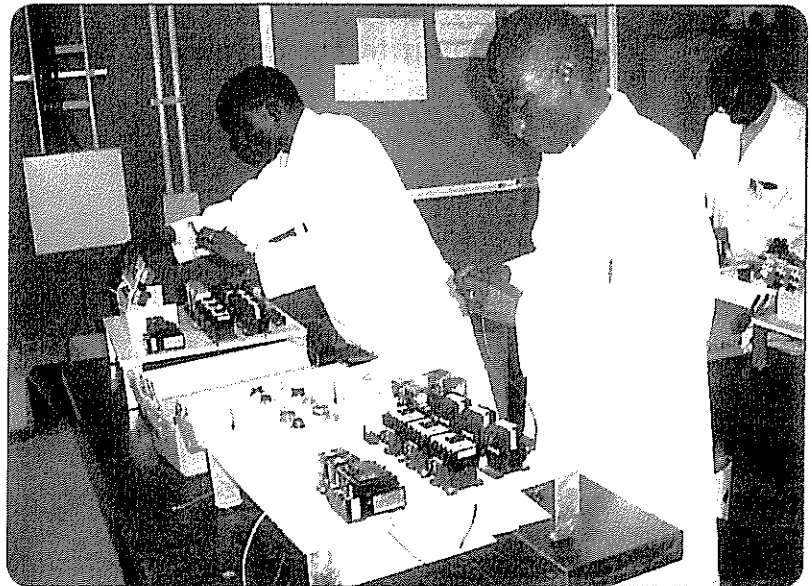
The Institute library is a major information source, holding a range of specialist materials in print format, to allow trainees build their knowledge and skills.

*Librarian
arranging
books while
some
trainees are
revising their
books*

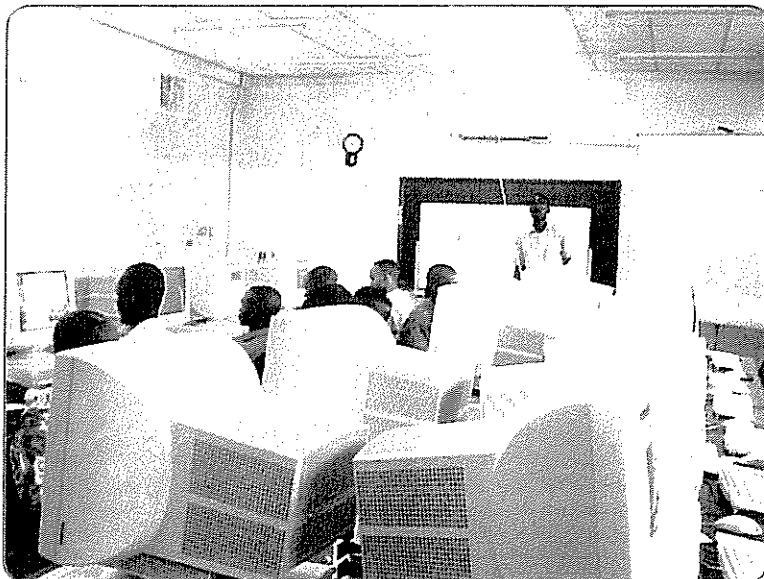




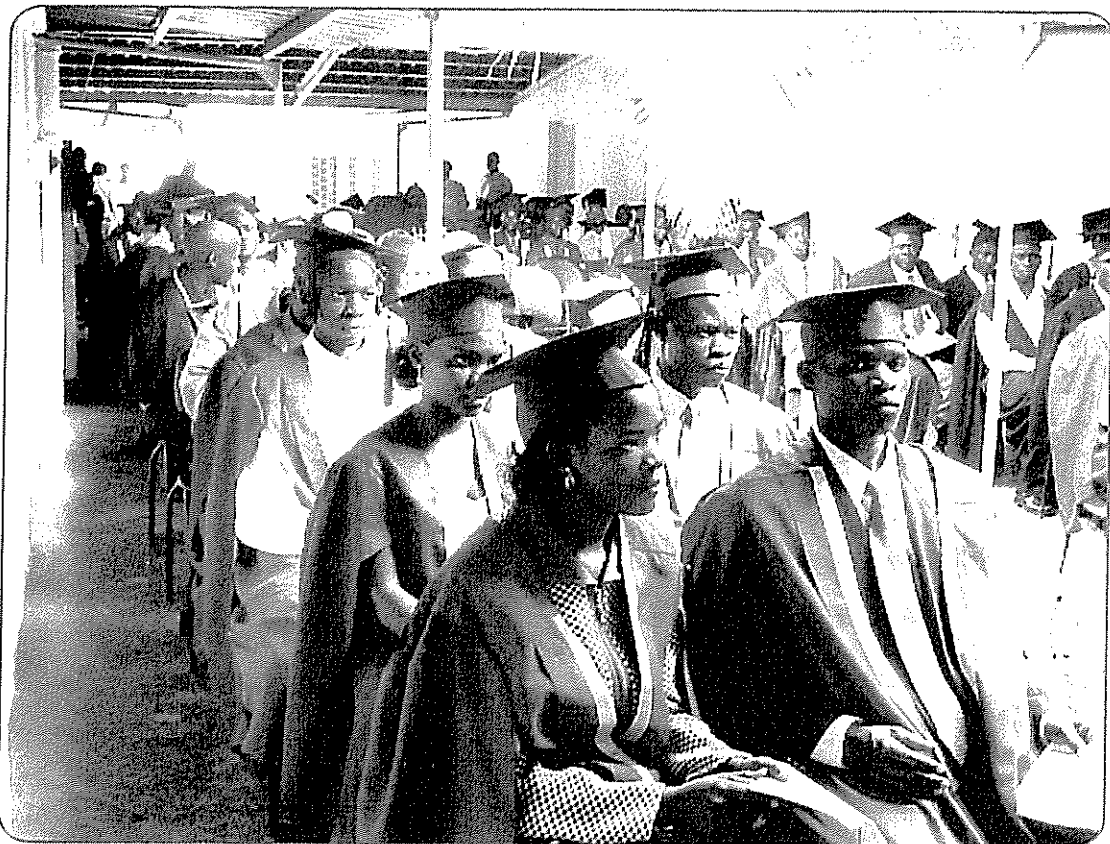
An Instructor in Electronics Section instructing participants in the field of Digital Technology



Participants in the workshop practicing Programmable Logic Control systems



The institute has a modern computer lab which accommodate more than 20 people

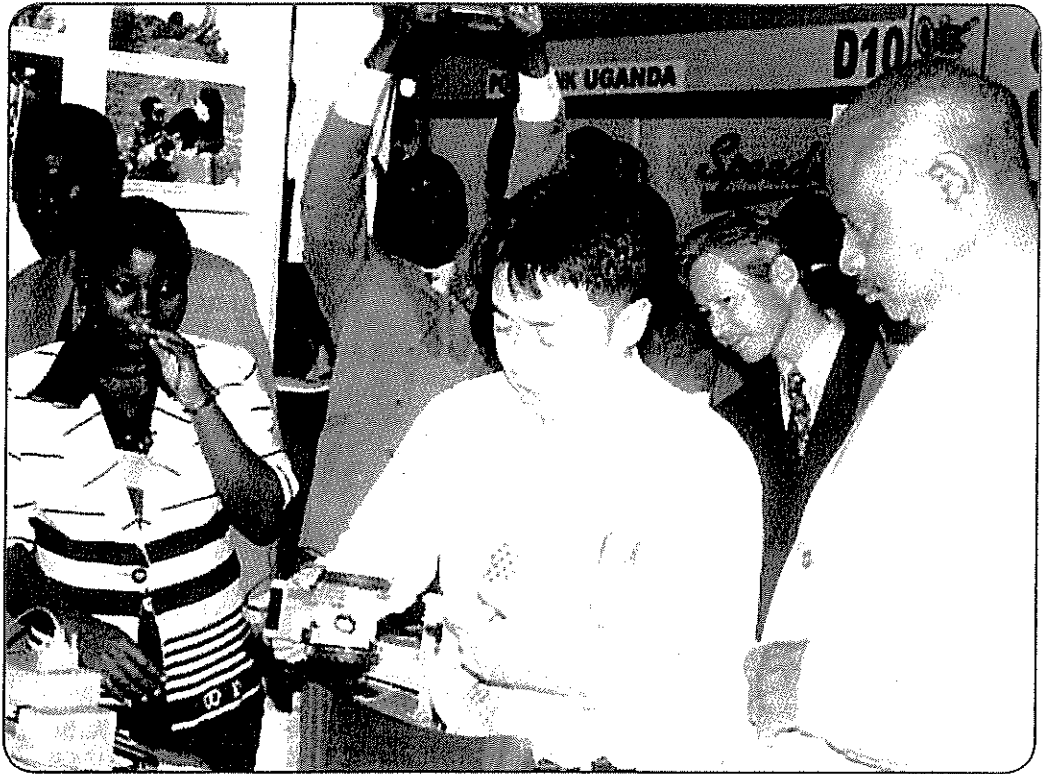


Trainees graduate after completion of their courses in different fields of Engineering

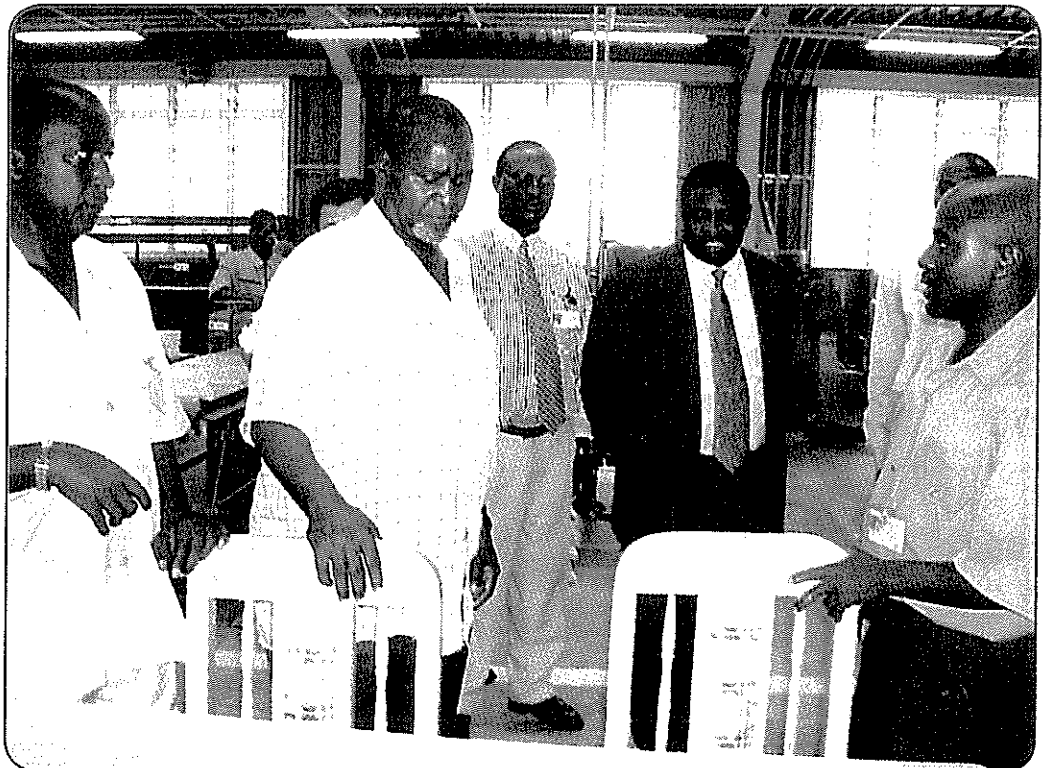


Completion of upgrading training in the fields of Digital Technology/sProgrammable Logic Control/Sequential Control/Electronic Fuel Injection, and the programme in general is Third and In country Training

24 Events

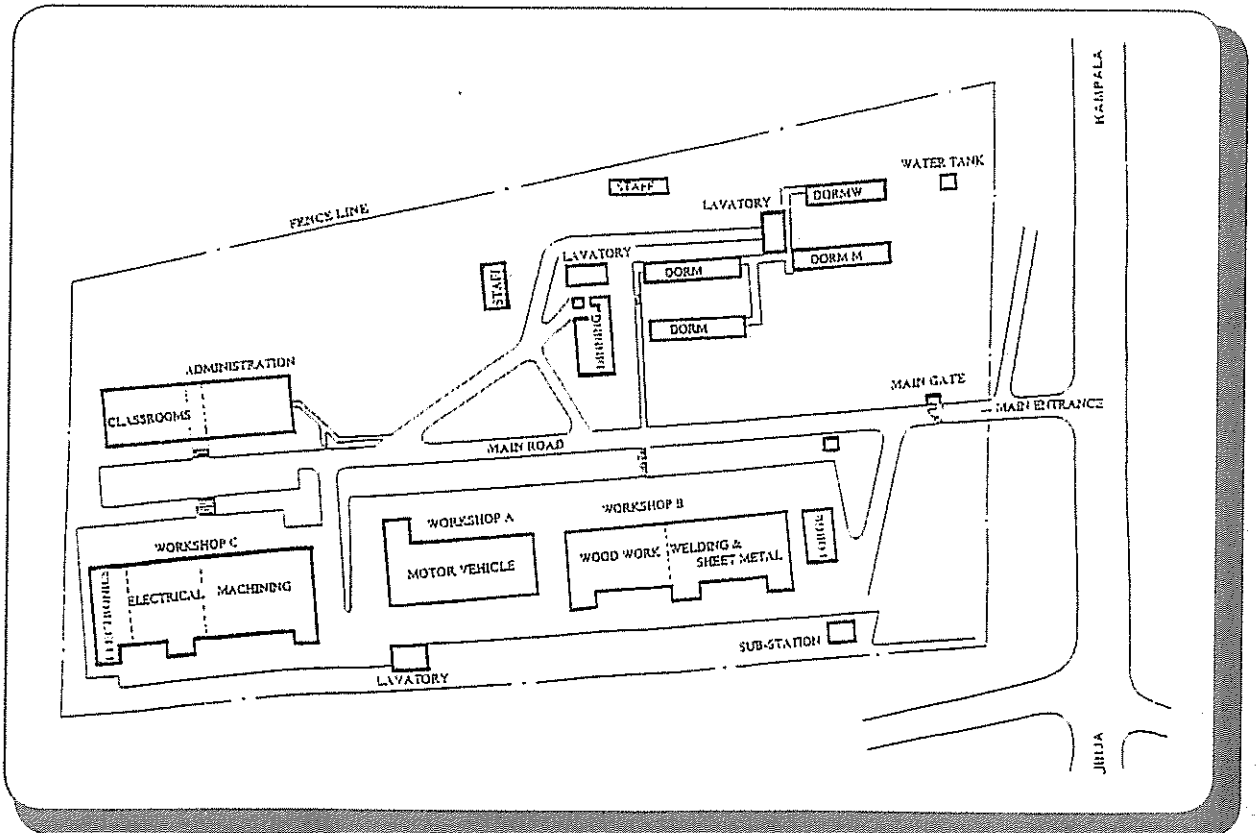
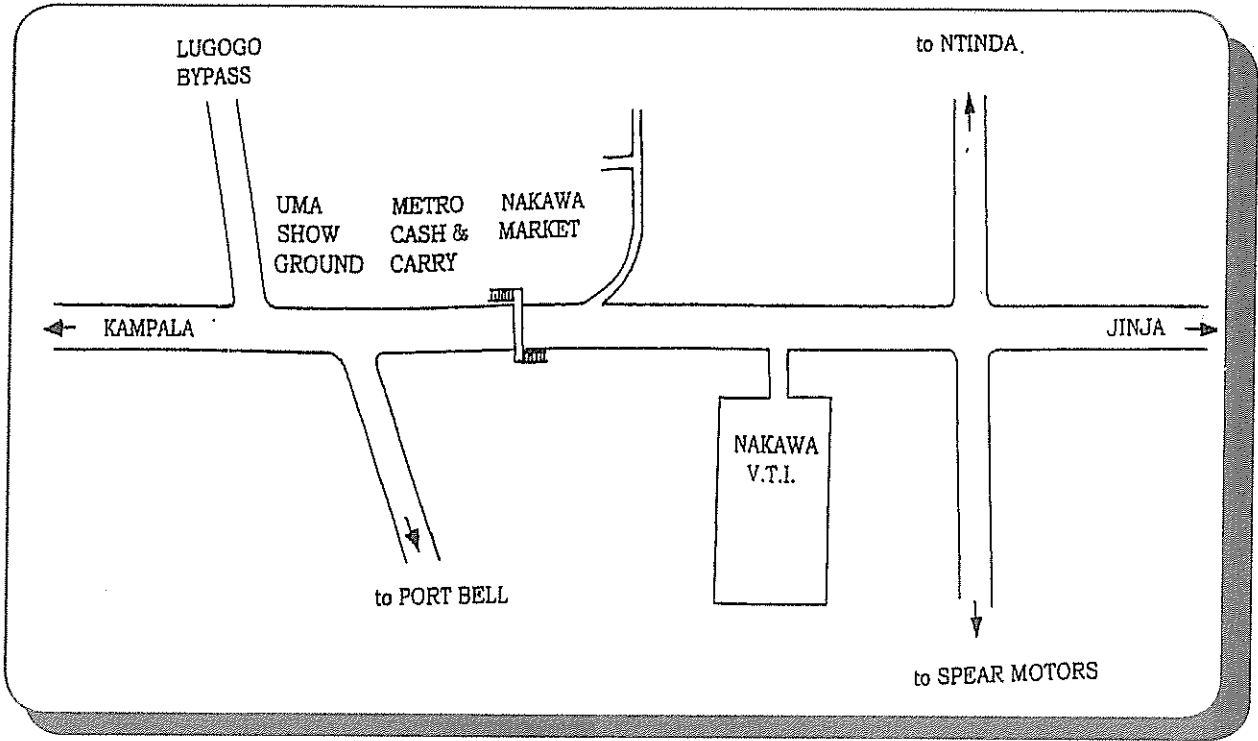


Japanese expert, Mr. Sato, presenting new technology to President Museveni at the Trade Fair.



The Vice President of Uganda appreciating the work being done in wood working section at the Institute. He visited the Institute to officiate the official closing of Local Manufacturers' Training in rice threshing machine

Location map



Course/Training Inquiries

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