



TECHNICAL REPORT
ON
STUDENTS INDUSTRIAL WORK EXPERIENCE SCHEME
(SIWES)

Held At

**KWARA STATE GEOGRAPHIC
INFORMATION SERVICE (KW-GIS)**
COMMISSIONER'S LODGE WAY, G.R.A, ILORIN, KWARA STATE.

By

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DEDICATION

I dedicated this report to Almighty Allah, the Alpha and Omega, the founder of everything.

And also to my parents' **MR. AND MRS. KEHINDE** who happens to be the strong foundation of my academic journey.

ACKNOWLEDGEMENT

All thanks to Allah for making this SIWES a reality. My profound gratitude goes to the Head, Surveying and Geo-informatics Department, (**SURVEYOR ABIMBOLA I.S**), Kwara State Polytechnic, Ilorin, Kwara State for his word of advice.

I wish to express my sincere appreciation to some of my lecturers, for the great wisdom and knowledge impacted in me.

I also used this medium to appreciate the support of my parents, **MR. AND MRS. KEHINDE** for their physical, moral, spiritual and financial supports that was given to me during the course of my SIWES programme.

My appreciation will not be completed if I fail to appreciate my SIWES based-coordinator SIWES based-supervisor other staff in the organization.

ABSTRACT

This report gives the account of the training I undergone at Kwara State Geographic Information Service (KW-GIS), Ilorin, Kwara State, Nigeria. It includes all the experience I acquired during the course of my SIWES at the Organization.

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CHAPTER ONE

INTRODUCTION

Students Industrial Work Experience Scheme (SIWES) is a very big aid and a stepping stone to life after school. It is an opportunity given to students to put into practice most of the things that were taught as theory by lecturers in the Institution.

Kwara State Geographic Information Service (KW-GIS) has been a great aid to this programme because it gives more enlightenment on what surveying is all about. As a result of this, SIWES gives students more orientation and exposure to students in their course of training.

MEANING OF SIWES

Students Industrial Work Experience Scheme (SIWES) is the accepted skills training programme, which forms part of the approved minimum academic standards in the various degree programmes for all the Nigerian Universities. It is provided to bridge the gap that exists between the theory and practical.

It is aimed that exposing students to machines and equipment, professional work methods and way of safeguarding the work areas and workers in industries and other organizations.

OBJECTIVE OF SIWES

- To prepare students for the work situations they are likely to meet after graduation
- To provide an avenue for students in the Nigerian Institution to acquire industrial skills and experience in their course of study
- To strengthen employer's involvement in the entire educational process of preparing institution graduates for employment in industry
- To provide students with an opportunity to apply their theoretical knowledge in real work situation, thereby bringing the gap between institution work and actual practice.

- To expose students to work methods and techniques in handling equipment and machinery that they may not available in universities.

HISTORY OF SIWES IN NIGERIA

In the earlier stage of science and technology education in Nigeria, students were graduating from their respective institution without any technical knowledge or working experience. It was in this view that students undergoing science and technology related courses were mandated for students in different institution in the view of widening their horizons so as to enable them have technical knowledge or working experience before graduating from their various institutions. The Students Industrial Training Funds (ITF) 1973 to enable students of tertiary institutions have basic knowledge of industrial works base on their course of study before the completion of their program in their respective institutions. The scheme was designed to expose the students to industrial environment and enable them develop occupational competencies so that they can readily contribute their quota to National economic and technological development after graduation.

The major background behind the embarkment of students in SIWES was to expose them into industrial environment and enable them develop occupational competencies so that they can readily contribute their quota to national economical and technological development after graduation. The major benefit acquiring to students who participate consistently in SIWES are skills and competencies they acquired.

The relevant production skill remain the part of the recipients of industrial training as long as assets which cannot be taken away from them. This is because the knowledge and skills acquired through training are internalized and become relevant when required to perform jobs or functions.

CHAPTER TWO

OVERVIEW OF KWARA STATE GEOGRAPHIC INFORMATION SERVICE

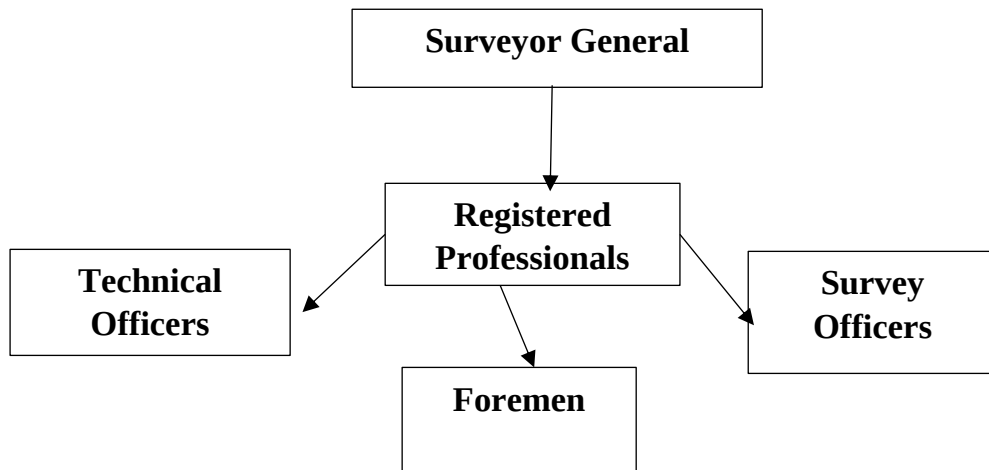
Kwara State Geographic Information Service (KW-GIS) has been a great assets to this programme because it gives more enlightenment and practical aspect of what surveying as a course is really up to. It gives students more practical aspects of what Geo-informatics is all about. As a result of this, SIWES gives students more orientation and exposure to students in their course of training.

The office of the surveyor General of Kwara State is a multi-disciplinary establishment comprising of professionals and technical staff in surveying, Geo-informatics, photogrammetry, cartography, printing, photography, carpentry and electrical works. It is responsible for the formulation or execution of policies and projects of the state on issues relating to surveying, mapping, geo-spatial information and General Land Administration and Management.

BRIEF HISTORY OF THE ORGANIZATION

Kwara State Geographic Information Service (KW-GIS) is an organization that provides practical solution to SIWES/I.T students, it was upgraded and restructured into an Extra-Ministerial Department consisting of four departments (Mapping and Boundaries, Cadastral and Special Surveys, Geo-Spatial Information Systems and Administration and Finance) which was established in October, 2009.

ORGANOGRAM OF THE ORGANIZATION



SERVICES PROVIDED BY THE ORGANIZATION:

- Surveying
- Geo- Information
- Printing
- Photography
- Carpentry
- Electrical work
- Photogrammetry
- Cartography

CHAPTER THREE

DESCRIPTION OF WORKDONE

I learnt how to record a file and keep or store a file. The meaning of record is pertaining to land, it maybe private or government owned land. The different between federal and state government land is that, federal government has yellow logo which include CBN, Federal Secretariat while state government include KWGIS office, secretariat.

Title deed is used to secure for future purpose and before the title, we would do survey and get the survey plan. We used GPS to carry out site plan and it will not have pillar number. We used total to carry out survey plan. I also learnt that town plan, they design the layout of a survey plan, they also provide information about a specific parcel of land.

Some different types of application written on file are; residential (Res), agriculture (Agric), petroleum (pet), commercial (comm), industrial (ind), religion (rel) etc. I also learnt that the land for residential in kwara state is 1 plot maximum and it can be over 10 plots for non residential. The meaning of gutter chain is a tool used to measure distances and lengths. It is a chain of 100 links each 7.92 inches (0.66feet) long making the total lengths 66 feet (20.12) meters.

How does gutter chain work? Surveyors stretches the chain between two points ensuring its level and taut. The number of chain and link between the points is counted allowing calculation of measurement, making it easy to convert to other unit.

What is gutter chain used for? Measuring property boundaries, it is also used for mapping and planning, also used for calculating of areas and volumes. Hectare is a unit of area primarily used to measure land and properties.

Deeping and arrangement of files (red copys), checking of record copy plan. Computation and computing of records copy file/plan. I also learnt how to play an auto card, conversion of meter to feet by multiplication with 3.280g.

In auto card, I was taught how to use device like spine, river and hatch. I also learnt that middle of the river is boundaries and any land that did not have layout is at risk. I also learnt how to use GPS (Global positioning System) to take a point.

TECHNICAL SKILLS ACQUIRED

Below are list of skills I acquired during my **Student Industrial Work Experience**

Scheme at Kwara State Geographic Information Service (KW-GIS)

Deep knowledge in understanding surveying and Geo-informatics.

- Ability to convert meters to feet
- Ability to make use GPS to take a point.
- Ability to make data computation.
- Ability to use auto cad in device like spine and hacth.
- Learning how to use gutter chain for different measurements.

SOCIAL AND FUNCTIONAL SKILLS ACQUIRED

- ✓ Enhanced communication skills.
- ✓ Ability to identify and solve problems relating to surveying and Geo-informatics.
- ✓ Decision making critical thinking, organizing and planning.
- ✓ Ability to work with team.
- ✓ Enhanced teaching and effective learning skills.
- ✓ Good mapping orientation skill

PERSONAL INPUT TO THE ORGANIZATION

- Teaching and assisting students (Clients) through their lessons.
- Assist students with their codes when not running.
- Running of errands to boost activities in the workplace.
- Check and work with colleague's when challenges occurs.
- Help in arrangement and mapping out land.

CHALLENGES ENCOUNTERED

- ❖ Difficulty in seeking for SIWES attachment
- ❖ Lack of transportation fee.
- ❖ I was not paid either by SIWES or the place of my attachment.
- ❖ There are no standard equipment's for learning and practical.
- ❖ The company lacks proper SIWES orientation on how to train student.

CHAPTER FOUR

CONCLUSION AND RECOMMENDATIONS

CONCLUSION

My three (3) months Student Industrial Work Experienced Scheme at **KWARA STATE GEOGRAPHIC INFORMATION SERVICE (KW-GIS)** was a huge success and a great time of acquisition of knowledge and skills. Through my training I was able to appreciate my chosen course of study even more, because I had the opportunity to blend the theoretical knowledge acquired from school with the practical hands-on application of knowledge gained here to perform very important tasks that contributed in a way to my productivity in the company.

My training here has given me a broader view to the importance and relevance of surveying in the immediate society and the world as a whole, as I now look forward to impacting it positively after graduation, I have also been able to improve my communication and presentation skills and thereby developed good relationship with my fellow colleagues at work. I have also been able to appreciate the connection between my course of study and other disciplines in production a successful result.

RECOMMENDATIONS

- School should provide a place of attachment for student
- Allowances should be paid to students during their programme just like NYSC and not after. This would help them a great deal to handle some financial problems during their training course.
- Supervisor should always visit student weekly in their various places of attachment.

REFERENCE

PAPER WORK

- Student industrial work experienced scheme 2020/2021 handbook
- Surveying and Geo-informatics manual by industrial supervisor

LINK

- <http://www.w3schools.com>