**CHAPTER ONE**

**INTRODUCTION TO STUDENT INDUTRIAL WORKING EXPERIENCE**

**(SIWES)**

1. **SIWES SCHEME IN NIGERIA**

The student industrial work experience scheme (SIWES) is a necessary and compulsory program which Science, Engineering and Technology undergraduate students of Nigerian university must undergo. The program was introduced to bridge the gap between theory and practical as theoretical knowledge alone will not adequately prepare a student for the world of work. The students spends a period of time in the industry working as they would after graduation, they are expected during this time to learn the practical aspect to their course of study. The students are to avail themselves of the opportunities to blend the theoretical knowledge gained in the classroom with the practical knowledge acquired in the industry. This experience exposes the student to the environment in which they will eventually work, this eases the transition from classroom to work place after they have concluded their studies should they choose to do so.

The student industrial work experience scheme (SIWES) is the accepted skills training program which forms parts of the approved minimum academic standard in the various degree program for all the Nigerian universities and polytechnics. It is an effort to bridge the gap existing between theory and practical of Science and engineering, agriculture, medicine, management and other professional program. In the Nigeria Tertiary Institutions it is aimed at exposing students to machines and equipments, professional work methods and ways of safe guarding the work areas and the workers in industries and other organizations.

The Student Industrial Work Experience Scheme (SIWES) is an accepted skills program which forms part of the approved academic standards in the degree program for Nigerian Universities. In 1974, the Federal Government of Nigeria introduced the national policy on Industrial training, called the Student Industrial Work Experience Scheme (SIWES). This program is under the umbrella of the Ministry of Education through the Industrial Training Fund (ITF) and it was designed to help students acquire the necessary practical education/experience in their fields of study and other related professions.

This is an effort which was created in order to bridge the existing gap between the theory of taught in the classroom and practice of science, agriculture, medicine, engineering, technology and other professional programs in the Nigerian tertiary institutions. This program is aimed at exposing the students to the use of various machines and equipment, professional work methods and ways of safeguarding the work areas in industries as well as other organizations. The program was established basically to impact elaborate practical understanding to students with respect to their various disciplines. It is also intended that the student, through a process of relation to academic knowledge and practical industrial application, would understand the underlying principles and become better focused and acquire the practical applications towards excellence in his or her discipline.

The Student Industrial Work Experience Scheme (SIWES) program involves the student, the Universities, and the industries. This training is funded by the federal Government of Nigeria andjointly coordinated by the Industrial Training Fund (ITF) and the National Universities Commission (NUC).

1. **HISTORY OF SIWES**

At the early stages of the development of education in Nigeria, there was a problem of the gap between theory and practical skills of students. Therefore, there was a need to give students the opportunity to get real work experience.

The program was created to give students experience in addition to theoretical learning. The industrial training policy was introduced by Federal Government of Nigeria in 1973. This project was necessary to improve practical skills of students.

SIWES has become a necessary pre-condition of graduation. The program is working with disciplines such as engineering, medical science, natural science, technology, agriculture, education, environmental, applied science. The duration of the program can be different, for the universities, it is six (6) months and a year for colleges and polytechnics.

The program is developed under the guidance of the Ministry of Education. This is an excellent bridge between theoretical and practical education. SIWES is working on designing proper programs for exposing students to the industrial workplace environment. It is all about the development of occupational competence.

**1.3 AIMS AND OBJECTIVES OF SIWES**

* To provide students with industrial skills and needed experience during the course of study.
* To create conditions and circumstances, this can be as close as possible to the actual workflow.
* To prepare specialists who will be ready for any working situation immediately after graduation.
* To teach students the techniques and methods with facilities and equipment that may not be available within the walls of an educational institution.
* To give students the ability to try and apply the given knowledge.

**1.4 GROWTH OF SIWES**

Since its inception, the scope of the scheme has widened considerably. The number institutions grew up to its corresponding increase in the number of student’s population.

During its early years of existence, its operations were not heavy. The population could easily be managed because the individual facilities were adequate and many multi-national companies were expanding their base in Nigeria. The period also witnessed a steady increase in student’s populations as the years went by and this meant corresponding increase in the need of the placement.

**1.5 VARIOUS ORGANIZATION ASSOCIATED WITH SIWES**

For continuous sustenance of the scheme, various organizations such as the:

1. Federal government
2. Industrial Training Fund(ITF)
3. National University Commission (NUC).

**CHAPTER TWO**

**CRANEBURG CONSTRUCTION COMPANY**

**2.1 BRIEF HISTORY OF CRANEBURG CONSTRUCTION COMPANY**

Craneburg construction company is one of the best construction company which deal with all operations on road construction which includes excavating, road works, bridge works, construction of drainage system and laying of asphalt. This company has been in existence for decade and they’ve been trying all their possible best to render their quality construction services to the country. The journey of this company began in Epe, in Lagos State. After then a new branch arose in Ilorin, and so many other places.

* **CONCRETE SECTION:** CONCRETE section is a section where all concrete work are taken care of such as mixing of coarse aggregates, water and cement. This section deals with the grade of concrete to be used
* **QUALITY CONTROL:** section deal with testing of concrete and asphalt to be used.
* **ASPHALT PLANT:** section deals with the process and production of asphalt laying.

The Company Vision is **to be a globally renowned special electrical and mechanical** company and its Mission is**to continually improve customer satisfaction** and aim to achieve Customer delight to maintain Sustainable growth and return on investment.

* 1. **CORPORATE VALUESOF ADS POWER SOLUTIONS**

A corporate value of ADS Power Solutions refers to the guiding principles that shape the culture,behavior, and decisions of its company. These values are often considered the core beliefs that define an organization’s identity, purpose and direction. And these values comprises of:

• Respect

• Commitment

• Decisive

• Proactive

• Selfless

• Simplicity

**2.4 BUSINESS CAREER OF WILL OF GOD ENGINEERING WORKSHOP**

WILL OF GOD ENGINEERING WORKSHOP believes in nurturing talented professionals and creating a uniform platform for them to grow. We’re always looking for bright and passionate people to join Will of God Engineering Workshop.

The company strive to be an exceptional place to work, while insisting on the highest ethical and professional conduct. Will of God Engineering Workshop encourage smart and ambitious people who are looking for a place to grow their careers; people who are eager to take the initiative to continuously learn and experiment. Whatever your passion is, Will of God Engineering Workshop provides you the perfect platform to chart your own career path. Will of God Engineering Workshop believes in hiring the right people, people who wish to take its company to newer heights by setting new standards. Will of God Engineering Workshop has a cultural mix of people with varied backgrounds, striving to achieve the same goal. At Will of God Engineering workshop, they offer a harmonious work environment and would want to strengthen our distinct culture of openness, trust and transparency across the company.

The Company gives utmost priority to:

1. Employees safety

2. Employee Well being

3. Infrastructure to facilitate high performance