

## **SIWES LOGBOOK TEMPLATE**

Week 1

Monday	Orientation Day 1: We were welcomed into the company with an opening ceremony which started with entailed listening to speeches from their IT Administrators and key members of staff. After then we also resubmitted Our CV.
Tuesday	Orientation Day 2: I was introduced to the companies Handbook and given presentation regarding Policies and rules we are meant to follow as a staff. I was also introduced to the Cybersecurity issue, and measure and precaution observed by their staff.
Wednesday	Orientation Day 3: Badges were created for us, and also we were given mini presentations regarding the types of groups we would be sorted into. Prior to that we were grouped in department we would work in, I am in the MTN Team.
Thursday	Orientation Day 4: Compliance Training, we were to receive our computers today and were given compliance training items on our iLearning app to study and familiarize ourselves with the company policies and guidelines for technical uses.
Friday	Orientation Day 5: Configuration of WeLink app(an application used by Huawei Staff for work and communication purposes). Compliance Training: we focused more on ethical and moral guidelines, like harassment, how to associate with fellow staff, mentors,equality e.t.c
Saturday	Review and Completion of the Work done during the week.

## ***SAMAR PRODUCTION***

### WEEK 2

Monday	Compliance Training Exams. We concluded our compliance training last week and were made to write exams over a period to make sure we understood all we had practiced and learnt.
Tuesday	Tuesday: Compliance Training Exams, this was the second round of exams for our compliance training, this was more based on Cybersecurity concerns.
Wednesday	Wednesday: We were sorted into groups today, each group was given time to pick a leader, run an introductory session and given simple team building tasks to know each other and learn effective group management.
Thursday	Thursday: Group Project: Our first internship project was assigned to each group. We had our first group meeting regarding the project, which entailed planning our strategy for how assignments for the project will be handled.
Friday	Friday:  Group Project: Group Project: We made our first presentation to the IT Administrators and other interns, in order to access how skilled we are in team work, we gave a simple presentation on the about the company, why we like the company and goals we have set to have a great internship moving forward and what I can add to the company.

Saturday	
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#### WEEK 3

Monday 17 <sup>th</sup>	Group Project Meeting & Research: I and my team held a series of meetings and discussions this week aimed at our project presentation deadline for next week. For the first day we discussed Network Switching System.
Tuesday 18 <sup>th</sup>	Group Project Meeting & Research: I and my group members spoke and contributed Ideas and knowledge on Core Evolution of the Network.
Wednesday 19 <sup>th</sup>	Group Project Meeting & Research: For the third day of discussions we spoke about evolution of mobile systems. The history 0g to 5g, and also compiled our slide together.
Thursday 20 <sup>th</sup>	Group Project Meeting & Research: For the final round of discussions we did final analysis, and we were able to split the presentation and plan the structure of the presentation.
Friday 21 <sup>st</sup>	Compliance examinations: In my Company it is very mandatory for all staff to write some required amount of compliance examination depending on your department.

## Week 4

Monday 24 <sup>th</sup>	Compliance Exam and Approval Request to Major Applications used by my department.
Tuesday 25 <sup>th</sup>	Compliance Exam and Setup of System: Because of the Weighty Protocols and security measures in place before a new staff is granted the permission to use the Applications there has to be series of approval to be met.
Wednesday 26 <sup>th</sup>	Configurations of Official System: I went to the IT department to configure my system and also familiarize myself with the applications used by the staffs in the company.
Thursday 27 <sup>th</sup>	Presentation of Group Project (Research on the Evolution of GSM), the IT specialist that were invited were very impressed with our presentation after which we were taught by the IT specialist that were invited on Network Switching System.
Friday 28 <sup>th</sup>	Cybersecurity Day for Nigeria: My Company Organized a meeting where all staffs were made to attend, enlightening us on the Cyber Security RedLines and creating awareness in all of us, after then we were all made to write an examination.

## WEEK 5

Monday 31 <sup>st</sup>	Research on Telecommunication Devices: I was given an assignment to read up on the telecommunications vendors (e.g Nokia, Huawei) used by my company and how the function.
Tuesday 1 <sup>st</sup>	Research on Telecommunication Devices used in Huawei and Sorted Approval for Application used (Fusion Access)
Wednesday 2 <sup>nd</sup>	Introduction to Radio Access Network: This day I was introduced to Radio Access Networks and showed us on his system a visual map, with Links in various part of Nigeria that they monitor. He showed me how the Map with the Links(either Fiber Optics links or Microwave Links) how they function.
Thursday 3 <sup>rd</sup>	I did a research on some key terms used relating to the Radio Access Networks like IPRAN(Ip Radio Access Network), SDH ( )used in the Radio Access Network.
Friday 4 <sup>th</sup>	Training: Today I had a training on the Basics of Microwave Links, terms associated with Microwave Links, Benefits and why Fiber Optics has a greater advantage than Microwave Links.

## WEEK 6

Monday 7 <sup>th</sup>	In my Office there is a massive screen showing a map with location of site, with a chart showing the Region Names(e.g North East, North Central) and the Number of Outage (whether in 2G, 3G, 4G).
Tuesday 8 <sup>th</sup>	We Observed that there was a massive number of Region Site Outage, we confirmed from our supervisor that most of the reason was because of fiber cut, which had to be resolved by rerouting the links.
Wednesday 9 <sup>th</sup>	A RESEARCH ON Overview of the Telecom Network. Also made a request for an approval to be granted. I monitored the site that had issues and found out what were the faults on the links.
Thursday 10 <sup>th</sup>	I was able to observe the Links on Nigeria Airtel NOC Operation for Links that were Down. I also understood the RAN (Radio Access Network ) and CS (Core Network) on the GSM Architecture which is used in the early generation.
Friday 11 <sup>th</sup>	Today I familiarized myself with a software that manages the links on the site and gives information concerning any fault, this particular application is used for Nokia Devices on the Site.

## WEEK 7

Monday 13 <sup>th</sup>	Public Holiday
Tuesday 14 <sup>th</sup>	My approval was granted. So I continued to familiarize myself with the Software for this particular Customer device. I was able to notice Alarms that were raised on particular links.
Wednesday 15 <sup>th</sup>	I was able to observe the Links on Nigeria Airtel NOC Operation for Links that were Down. I also understood the RAN (Radio Access Network ) and CS (Core Network) on the GSM Architecture which is used in the early generation.
Thursday 16 <sup>th</sup>	From my previous I realized that for the GSM Architecture I learnt there was an improvement, turning the RAN to UTRAN because of packets were introduced.
Friday 17 <sup>th</sup>	We had a Training today on IPRAN ARCHITECTURE. We were put through on the various part on the IPRAN Architecture and how they all work together for the aim of an efficient communication

## WEEK 8

Monday 21 <sup>ST</sup>	I was given a task to extract and apply for licenses for some links that needed more bandwidth. Then also to check for some links which exceeded the Bandwidth Limit from NCC
Tuesday 22 <sup>ND</sup>	I continued with my Task, I had an excel sheet that has a list of the site name and I would check for the Ip address of the link that needed extra bandwidth and apply for them.
Wednesday 23 <sup>RD</sup>	I submitted the Microsoft Excel File that indicated the update of the links, if we applied for Bandwidth for them or not.
Thursday 24 <sup>TH</sup>	I was put through by my supervisor to check if the links on the network were carrying traffic or not. I used Telnet to do that, and also learnt some commands to carry out the task.
Friday 25 <sup>TH</sup>	I familiarized myself with the software (Nokia and telnet) used and how to use the commands I was given to check if the links were carrying traffic or not and also if they were configured.



## WEEK 9

Monday 28 <sup>th</sup>	Today I continued my task and tried to accomplish a task of completing about 60 links, checking if there was traffic on it.
Tuesday 29 <sup>th</sup>	I was given the Task to confirm which router is carrying traffic of not and revert it. I was also able to continue my course on COURSERA.
Wednesday 30 <sup>th</sup>	I continued with the task by confirming which router is carrying traffic using NSP (Network Service Management)
Thursday 1 <sup>st</sup>	While I was checking for traffic on router today I experienced a couple of problems like No Server Listening or being unable to connect to the Router.
Friday 2 <sup>nd</sup>	Today, I was able to know the reason for some of the routers not connecting and checked 60 links and highlighted the ones that had issues.

## WEEK 10

Monday 5 <sup>th</sup>	I continued the task from the previous week to check for traffic on a live network and to document their status if it was online and carrying traffic or not.
Tuesday 6 <sup>th</sup> July	I continued with the task given, but today's own was a bit different because I encountered several issues, some of the issues I had was because of No server Listening or when I am unable to login to the Network using command prompt.
Wednesday 7 <sup>TH</sup>	I log In to (Network Service Platform) NSP a platform used to manage Nokia Routers from the NOC. I then acquired the IP address for the link from the file I was given then updated the file.
Thursday 8 <sup>TH</sup>	. Today I did a research to know the reason to some of the problems I faced while checking the Links and continued with the Task. I was given about 482 sites/links to check for their update.
Friday 9 <sup>TH</sup>	Today I was able to finally complete the task I was given and sent it to my supervisor for correction and for use.
Saturday 10 <sup>th</sup>	I used today to take a rest and also update my Logbook.

## WEEK 11

Monday 12 <sup>TH</sup>	I was given a task to extract License for some LIVE Networks in Lagos and Oyo State
Tuesday 13 <sup>TH</sup>	I tried to complete the task given to me the previous day and sent it to my supervisor and one of his colleagues that needed the detail.
Wednesday 14 <sup>TH</sup>	Today I continued One of the Courses I started on Coursera, did some practical and submitted it.
Thursday 15 <sup>TH</sup>	I tried to complete the task given to me the previous day and sent it to my supervisor and one of his colleague that needed the detail.
Friday 16 <sup>TH</sup> July	Training: Today at work we had training on Information Security and Confidentiality Awareness Training.

## WEEK 12

Monday 19 <sup>TH</sup> July	Today I was given an Excel Document consisting of Near End Site, Far End Site , and their ID Link so that I can identify the Capacity Utilization of the Links, if they have been used up or not.
Tuesday 20 <sup>TH</sup> July	PUBLIC HOLIDAY
Wednesday 21 <sup>ST</sup> July	PUBLIC HOLIDAY
Thursday 22 <sup>ND</sup> July	<p>Training : Today was July Network Safety Day, we were re oriented on the Cyber security violation at work and also gave instruction on some software to download.</p> <p>I also continued with the Links I was given and submitted it to my supervisor and copied his colleague that gave me the assignment.</p>
Friday 23 <sup>rd</sup> July	I logged into MiniLink for Ericsson devices to check and confirm Capacity Utilization of the Links, if they have been used up or not, using their ID link which I got from the Excel Document.

### WEEK 13

Monday 26 <sup>Th</sup> July	Today I had a quick training on how to bring down the Modulation of some links located in Sokoto, Delta and Taraba from 1024QAM to 512QAM.
Tuesday 27 <sup>TH</sup> July	We were granted Approval to be able to make some major changes on the Application iMaster Nce that we were going to use to work on the Live Networks. I also started bringing down the modulation from 1024 QAM to 512QAM
Wednesday 28 <sup>th</sup> July	I tried to bring down the modulation from 1024QAM to 512 QAM for about 10 sites, also taking necessary precaution. I also took my Course on Coursera relating to User Interface and User Interface.
Thursday 29 <sup>th</sup> July	Working in the NOC department of Airtel Network under Huawei I had to be very careful and observant while bringing down the Modulation from 1024QAM to 512 QAM because any mistake can affect the network.
Friday 30 <sup>th</sup> July	Today I completed the task I was given to bring down the Modulation for the Live Networks and submitted it to my supervisor and his colleague that gave me the assignment.

## WEEK 14

Monday 2 <sup>ND</sup> AUGUST	I learnt how to check for the RSL of a link, using iMaster NCE which is the Network Management, after the training I later went on my own check for the RSL of links from the Last 24 hours.
Tuesday 3 <sup>RD</sup> AUGUST	I learnt how to check for Link Performance, Link Error and History Performance. Then on my own I logged into iMaster NCE to derive the Performance Graph Analysis of the link for the Last 24 hours.
Wednesday 4 <sup>TH</sup> AUGUST	I was taught on how to Create a PLA (Physical Link Aggregation) which is a means of combining different channels to work as one. I created the PLA and Moved the traffic to the link
Thursday 5 <sup>TH</sup> AUGUST	I learnt how to create a service for links on iMaster NCE. Under supervision we carefully were shown how to create service for a link, meaning for it to be able to carry traffic.
Friday 6 <sup>TH</sup> AUGUST	I also learnt how to check for for link Utilization on iMaster NCE for Microwave Links. And Practiced what I learnt on I Master NCE but making sure to not make any changes since I was not told to do so.
SATURDAY 7 <sup>TH</sup> AUGUST	

## WEEK 15

Monday 9 <sup>TH</sup> AUGUST	We had our RNOC Cybersecurity meetings, where issues that occurred in the last month were discussed and solved. They reviewed Huawei's Cyber Security Guidelines again, and in the case of doubt, questions were asked and answered.
Tuesday 10 <sup>TH</sup> AUGUST	Today I paid a visit to a site, under the supervision of an engineer, He took us to Oniru particularly LG0049. We saw the various IDU (Indoor Unit) and Outdoor Unit (ODU) and also the various vendor (Ericsson , Nokias) Equipments and briefed on how they function to provide a network.
Wednesday 11 <sup>TH</sup> AUGUST	From my experience on the site, I was able to relate the things I normally see on Minilink (Ericsson) or NSP (Nokia) the vendors application for managing the equipment on site, we also learnt how to configure a particular network from the site but with the help of someone in the office at the back end
Thursday 12 <sup>TH</sup> AUGUST	I paid a visit to Airtel's Database Center, We were shown the various Microwave devices, we were also granted access into the shelters where the kept and I also learnt about Packet Switching Core and Circuit switching Core from when we were shown the BTS and RNC
Friday 13 <sup>TH</sup> AUGUST	I compiled all I learnt from my visit at the site, I was able to learn about the Components that make up the ODU and IDU in the Site, Highlighted some challenges faced.
SATURDAY 14 <sup>TH</sup> AUGUST	

## WEEK 16

Monday 16th AUGUST	Training on How to Upgrade Routers: Today I had a training with my supervisor on how to upgrade Nokia Routers from the backend from the office by logging into the router using Fusion Access and logging into the routers.
Tuesday 17 <sup>th</sup> AUGUST	I started my day with an early morning 8am meeting with everyone with my department. After the meeting I started Upgrading the Nokia Router equipment, and updating what I had done on the Excel Spreadsheet.
Wednesday 18 <sup>th</sup> August	I logged in to Fusion Access after the 8am Meeting, continued the task I was given to upload the software for the router and and once the first set of upload for the routers was done I updated it on an Excel Sheet.
Thursday 19 <sup>th</sup> August	After my 8am Meeting I logged into NSP to upgrade the Links, but I needed to be careful and take proper precautions because I was working on a UBT Standalone Site.
Friday 20 <sup>th</sup> August	I continued with my task of uploading the new version of the software and checked the previous links I did to check if the version has changed to the recent version of the software.
SATURDAY 21 <sup>st</sup> AUGUST	



## WEEK 17

Monday 23 <sup>rd</sup> AUGUST	As usual I had my 8 am meeting, then I continued with the Standalone UBT routers that I was upgrading. By 10am We had a training, that was intended to equip us to be familiar with other vendor applications like Ceragon, Aviat etc.
Tuesday 24 <sup>th</sup> AUGUST	I had another training regarding how to troubleshoot RTN on NOKIA, Ceragon and Aviat Vendor Devices. After the training I continued the Routers I have been Upgrading.
Wednesday 25 <sup>th</sup> August	While I continued with my task of uploading the new version of the software and checked the previous links I did to check if the version has changed I encountered a few problems and I called my supervisor to assist me with them.
Thursday 26 <sup>th</sup> August	Monthly Cybersecurity Training: we had our monthly Cyber Security Training and some certain issues were discussed and how to solve them, I also was able to test run a bit of what I was taught during the previous training.
Friday 27 <sup>th</sup> August	I continued with my task of uploading the new version of the software and checked the previous links I did to check if the version has changed to the recent version of the software.
SATURDAY 28 <sup>th</sup> AUGUST	I used today to Do my Logbook and submitted my weekly report.

## WEEK 18

Monday 30 <sup>th</sup> August	While I continued with my task of uploading the new version of the software and checked the previous links I did to check if the version has changed I encountered a few problems and I called my supervisor to assist me with them.
Tuesday 31 <sup>ST</sup> August	After my 8am Meeting I logged into NSP to upgrade the Links, but I needed to be careful and take proper precautions because I was working on a UBT Standalone Site.
Wednesday 1 <sup>st</sup> September	I went through the excel file I was updating and extracted some of the links that had problems and called my supervisor for assistance and went ahead with troubleshooting and complete the first download.
Thursday 2 <sup>nd</sup> September	I attended my 8am Meeting, after the meeting I did a quick filter of the links that had issues and highlighted them with a different color and checked if the update has been done from the effect of yesterday.
Friday 3 <sup>rd</sup> September	I collated the excel sheet and sent a mail and attached the completion of the excel sheet of the updated router for the links, and explained what each of the color code stood for.
SATURDAY 4 <sup>th</sup> September	I used today to Do my Logbook and submitted my weekly report.

## WEEK 19

Monday 6 <sup>th</sup> September	Task- To Update Link Budget for the Links in a PDF file and input it in an excel file, with a format to guide me along.
Tuesday 7 <sup>th</sup> September	I updated the following data for the Links that were given to me- Received Signal, Design Frequency, True Azimuth, Antenna Model of both the Far end Site and Near End Site.
Wednesday 8 <sup>th</sup> September	I attended my 8am meeting as usual, and continued with the task of extracting data from the pdf file and updating the Excel sheet of the Links that were given to to me on the PDF file
Thursday 9 <sup>th</sup> September	I resumed with the task I was given yesterday of extracting data from the pdf like Design Frequency, Path
Friday 10 <sup>th</sup> September	I updated the following data for the Links that were given to me- Received Signal, Design Frequency, True Azimuth, Antenna Model of both the Far end Site and Near End Site.
SATURDAY 11 <sup>th</sup> September	I used today to Do my Logbook and submitted my weekly report.

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## WEEK 20

Monday 13 <sup>th</sup> September	I was given a new task for this week, which is to disable the LLDP (Local Layer Delta Protocol) of UBT links, I started with the UBT links in Lagos and ensured I did not touch the MSS links.
Tuesday 14 <sup>th</sup> September	I did a research on what LLDP (Local Local Delta Protocol) and where it can be find and applied and how it also relates to the task I am doing
Wednesday 15 <sup>th</sup> September	After my 8am meeting, I continued with the task of disabling the LLDP of both the Near End and Far end of the links and update it on an excel sheet.
Thursday 16 <sup>th</sup> September	I continued disabling LLDP (Local Layer Delta Protocol) of UBT links, I tried concluding the links in Lagos with my partner so we can do Ekiti UBT
Friday 17 <sup>th</sup> September	I attended a meeting where I was assigned a task to update and extract data about links from a pdf file. After then I continued disabling the LLDP of the links in Lagos.
SATURDAY 18 <sup>th</sup> September	I used today to Do my Logbook and submitted my weekly report.

## WEEK 21

Monday 20 <sup>th</sup> September	I was given a new task for this week, to extract data like Site Name, Received Signal, Path Length, TX Antenna Diameter, RX Antenna, Design Frequency etc.
Tuesday 21 <sup>st</sup> September	I was able to continue the links I was given and also was able to disable some of the LLDP of some links and updated them on an excel sheet
Wednesday 22 <sup>nd</sup> September	I had a meeting with a staff in my office he was putting us through the other assignment we had and granted us access to the One Box so that we could access files that were used in our department.
Thursday 23rd September	8am Meeting was held, I was also able to extract data for some links, We also had A Monthly Cyber Security Meeting today and wrote an exam.
Friday 24 <sup>th</sup> September	I had some pending task to do and an exam to write, after which I continued extracting data and updating them on the Excel sheet using the format I was given.
SATURDAY 25 <sup>th</sup> September	I used today to Do my Logbook and submitted my weekly report.

## WEEK 22

Monday 27 <sup>th</sup> September	I was given a new task for this week, to extract data like Site Name, Received Signal, Path Length, TX Antenna Diameter, RX Antenna, Design Frequency etc. At the End of the day we had a meeting giving an update on our accomplishment.
Tuesday 28 <sup>th</sup> September	After my Morning Update meeting, I was able to extract 40 links and update it on the excel sheet
Wednesday 29 <sup>TH</sup> September	After my 8am meeting, I continued extracting the data from the file I was given, I was given about 198 links to update
Thursday 30 <sup>th</sup> September	I completed my links and was able to submit it to my supervisor. And I was able to check for errors and realized that there were some links with 2 Design Frequency.
Friday 1st October	INDEPENDENCE DAY
SATURDAY 2 <sup>ND</sup> October	I used today to Do my Logbook and submitted my weekly report.