

5.

DAILY LOGBOOK (MSU/SCI/IA/004)

(PART A TO BE FILLED BY A ATTACHEE)

WEEK: ONE

DATE: 08/05/24

WEEKDAY: WED

STATION: ICT

Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Supervisors Remarks
9-10 am	<p>Induction</p> <p>Methods used.</p> <ul style="list-style-type: none"> • Presentations <p>Supervisor delivered presentations on company policies, regulations and organizational structure.</p> <ul style="list-style-type: none"> • Site tours <p>To familiarize with working environment</p> <p>Description .</p> <ul style="list-style-type: none"> • Induction provided an overview of Mzola Sugar Company's Operations, culture and protocols. • Introduction to key Personnel and departments • Overview of my role and responsibilities as a Computer Science attachee. 	<ul style="list-style-type: none"> • Company structure • Safety Protocols • Organization Structure (Infrastructure and Business) • Role Clarity 	<ul style="list-style-type: none"> • Technical jargon (understanding industry-specific terminology and processes) • Adapting to Environment (nature of industrial Operations) 	<ul style="list-style-type: none"> • Continued learning (Engage in further training sessions) • Seeking Mentorship (Identify experienced professionals within company for guidance) • Applying knowledge (Apply theoretical knowledge gained from academics studies) 	<p>Okey</p> <p>WELL CAPTURED</p>

Supervisor's Comments

INDUCTION WAS PERCEIVED WELL NOTED.JAMES OGADA

Supervisor's Name

B.J.Fu.

Signature

15/05/24

Date



DAILY LOGBOOK (MSU/SCI/IA/004)

5.

(PART A TO BE FILLED BY A ATTACHEE)

WEEK: ONE

DATE: 09/05/24 WEEKDAY: Thur

STATION:

Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Supervisors Remarks
8-9 am	<p><u>Database Administration</u></p> <ul style="list-style-type: none"> • Database Maintenance • Backup Administration Managing backup to safeguard data against loss and corruption <p><u>METHODS USED</u></p> <p>Login to system: Accessed MI Payload System with provided credentials</p> <p>SQL management studio</p> <ul style="list-style-type: none"> • Backup Procedure → Open SQL studio → Select MI Payload database → Tasks → Initiate backup process → Remove previous backup → Add new backup destination and Name file with current date → Copy backup file to flash drive 	<ul style="list-style-type: none"> • Understanding the importance of database maintenance and backup procedures • Familiarization with MI Payload System and SQL management Studio 	<ul style="list-style-type: none"> • Initial learning curve in navigating the MI payload system. • Ensuring proper backup configuration and settings • Addressing potential errors or interruptions during backup process • Navigating through the industrial area where sugar is being processed 	<ul style="list-style-type: none"> • Stay updated with advancements in database management technology • Implement automated backup solutions for efficiency • Coordinating with onsite personnel to ensure a safe passage • Regular review and continuously refine backup and disaster recovery procedures. 	OJET

Supervisor's Comments

ACTIVITIES WELL DONE WITH PROCEDURES

ALIGNED

T. Ogada

Supervisor's Name

Signature

Date: 09/05/24



5. DAILY LOGBOOK (MSU/SCI/IA/004)
 (PART A TO BE FILLED BY ATTACHEE)

WEEK: TWO

DATE: 13/05/24

WEEKDAY: MON

STATION: ICT

Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Super. Remar.
9am	<p><u>Activity:</u> Servers, architecture and Service</p> <p>Visit to Mzola Sugar Company Server room) Conducted by Edgar Nzano, Network admin</p> <p><u>Overview</u> The company's server room is a critical infrastructure housing essential components for the entire company's network operation</p> <p><u>Methods</u> Guided Tour: Network admin provided a detailed tour of the server room explaining functionality of each component</p> <p>Interactive Session: Discussions to understand the intricacies of Server management</p>	<p>Server room organization (Power room containing UPS, Server room divided into 2 Server rack (Intranet, Internet))</p> <p>Network Equipment Familiarization with different type of switches routers and firewalls used in an enterprise environment</p> <p>Redundancy and Backup Systems Learned the importance of UPS systems in ensuring uninterrupted operations and data integrity</p>	<ul style="list-style-type: none"> Complexity The intricate nature of the server room setup posed challenges in grasping all aspects during the visit Technical jargon Some terminology used by the network admin required further explanation for full comprehension 	<ul style="list-style-type: none"> Further Education for better understanding of network concepts Practical Experience to gain hands-on experience Continued Engagement Seek guidance and mentorship in navigating the complexity of enterprise networking 	Query

Supervisor's Comments

ACTIVITIES WELL DONE S. NOTED

J. Oyie
 Supervisor's Name

B. J. J. S.
 Signature

17/5/24
 Date

DAILY LOGBOOK (MSU/SCI/IA/004)

(PART A TO BE FILLED BY A ATTACHEE)

WEEK: TWO

DATE: 14/05/24

WEEKDAY: TUE

STATION: ICT

Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Supervisors Remarks
7am - 10am	<p><u>Activity:</u> Troubleshooting Company's Warehouse Network</p> <p><u>Activities and Methods:</u></p> <ul style="list-style-type: none"> 1. Initial Assessment: Conducted a preliminary inspection of the warehouse network to identify connectivity issues. - Utilized network diagnostic tools to pinpoint areas of concern. 	<ul style="list-style-type: none"> • Troubleshooting Techniques: Developed skills in identifying and resolving network errors. 	<ul style="list-style-type: none"> • Time Constraints: Limited time available to troubleshoot and replace faulty cables. 	<ul style="list-style-type: none"> • Regular maintenance routine inspection. 	
10am - 12pm	<p><u>2. Cable Testing:</u></p> <p>Employed cable testers to assess the integrity of UTP cables. Identified faulty cables causing network disruption.</p>	<ul style="list-style-type: none"> • Cable Management: Learned the importance of proper cable organization and maintenance in ensuring network reliability. 	<ul style="list-style-type: none"> • Identifying faulty cables: Some faulty cables were challenging to detect initially, requiring thorough testing and inspection. 	<ul style="list-style-type: none"> • Training and Education: Education in network troubleshooting techniques to enhance skills. 	BILEY
12-4pm	<p><u>3. Replacement Procedure:</u></p> <ul style="list-style-type: none"> • Removed defective UTP cables from switch and made new UTP cables. • Replaced the existing switch with another working switch. <p>12-4 Tree planting :-</p>	<ul style="list-style-type: none"> • Hands-on Experience: Gained practical knowledge in making UTP cables and working with network infrastructure components. 		<ul style="list-style-type: none"> • Documentation: Maintain detailed record of network maintenance activities and any issues encountered for future reference. 	

Supervisor's Comments

BILEY, Weller CAPTURED.

J. Ogendo

Supervisor's Name

Signature

B. J. T. M. S. O. C. I. A. D. I. A. S. P. C. O. N. G. O. N. S. 18/07/24



DAILY LOGBOOK (MSU/SCI/IA/004)		WEEKDAY: <u>Wednesday</u>	STATION: <u>101</u>		
Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Supervisor's Remarks
7-9:30 am	<u>Database Administration</u>	Organization and structure of Mzuri Sugar Company	- Nature and environment of the factory		
10-1 pm	<u>Orientation by the Training Center officials</u> → Introduction to Mzuri sugar company → Requirements, rates and regulations → factory tour	- How sugar processing is done			Q 1
2pm	<u>Networking</u> Making ethernet. (Straight through cable) using UTP cable, crimping tool, RJ45 connectors → Creating a small network consisting of switch, laptops	<ul style="list-style-type: none"> • Type of cables • How to make working Ethernet cables • Colour code for cables • How to crimp connectors to UTP cables • Making a small network 	<ul style="list-style-type: none"> • Crimping tool was blunt • Mastering the colour codes • Connecting the cable to the connectors 	<ul style="list-style-type: none"> • More hands-on skills to gain better experience in making Ethernet cables. 	

Supervisor's Comments

Week captured & noted

J-Ogutia
Supervisor's Name

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Signature

16/5/2014
Date

5.

DAILY LOGBOOK (MSU/SCI/IA/004)

(PART A TO BE FILLED BY A ATTACHEE)

WEEK: TWO

DATE: 16/05/24

WEEKDAY: THUR

STATION: ICT

Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Supervisors Remarks
8am - 1pm	<p><u>Activity:</u> Configuring nanostation M2 Loco as an access point for wireless connectivity</p> <p><u>Methods:</u> Initial set-up: Connect the nanostation to laptop via Ethernet cable. POE adapter • Accessing configuration interface (IP: 192.168.1.20) • Configuring as an access point In the interface, set the wireless mode to Access Point Configure SSID (Network name) and security settings Set channel width and frequency. • Network settings Network mode: Bridge/Router Assign static IP address to the nanostation within desired subnet • Final Steps: Apply settings and allow device to reboot Test wireless network using phone and laptop</p>	<p>Understanding setup process of a nanostation M2 Loco and its properties</p> <p>→ Can be used as → Access point → Transmitter Receiver → Repeater</p> <p>Practical experience in network configuration and troubleshooting</p> <p>Knowledge of wireless networking concepts and security configurations such as WPA2</p>	<ul style="list-style-type: none"> Initial configuration hurdles. Ensuring correct IP settings and initial connection to the nanostation. Power surge Coverage Optimization Determining the best position for the nanostation to maximize coverage and minimize dead zones. Assigning IP address to the devices 	<ul style="list-style-type: none"> Advanced training Further training on network configuration. More hands-on skills to gain practical experience in network configuration and troubleshooting. A Subnetting and IP addressing 	
2pm - 3pm	Making a small network using nanostation as access point				

Supervisor's Comments

ACTIVITIES WELL DONE & NOTED.J. Ajala

Supervisor's Name

B.F.Jr.

Signature

H23/05/24

Date

DAILY LOGBOOK (MSU/SCI/IA/004)

5. (PART A TO BE FILLED BY ATTACHEE)
 WEEK: TWO DATE: 17/05/24

WEEKDAY: FRI

STATION: ICT

Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Sup. Rem.
9am	<u>Activity</u> Making Ethernet cables and setting up a small wired and wireless network with switch as the access point	<ul style="list-style-type: none"> Practical skills in making Ethernet cables using UTP cables 	<ul style="list-style-type: none"> Initial difficulty in arranging wires Crimping issues 	Regular practise in arranging wires and crimping to improve speed and accuracy.	
9am - 1pm	<ul style="list-style-type: none"> Making Ethernet cables using UTP Cat 6 cables, RJ45 connectors, and crimping tools. <u>Methods Used</u> Gather Materials Prepare cable Arranging Wires Crimping Testing	<ul style="list-style-type: none"> Basic of network setup and configuration Importance of cable testing to ensuring connectivity and performance Types of switches:- → TP link → Some support fibre connection → Others only UTP Color coding for straight-through cables 	<ul style="list-style-type: none"> Achieving firm and secure crimp on the RJ45 Connector Power Surges 	Continuous learning. Keep updated with the latest networking technologies and standards	
2pm - 4pm	Setting up Wireless and Wireless Network.			Seek assistance from network administrator	

Supervisor's Comments

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Supervisor's Name

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Signature

28/05/24

Date

DAILY LOGBOOK (MSU/SCI/IA/004)

5. **(PART A TO BE FILLED BY A ATTACHEE)**
 WEEK: THREE DATE: 20/05/24

WEEKDAY: MON STATION: CANE WEIGHBRIDGE

Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Supervisors Remarks
9am	<p><u>Activity:</u> Cane weighment and weighbridge operation</p> <p>The process involves weighing trucks carrying sugarcane using the factory's weighbridges and a calibrated digiter which is integrated to the Smartweigh System.</p> <p><u>Methods</u></p> <p>Weighbridge operation Operation of sensors and on the weighbridge</p> <p>SmartWeigh System Records the gross weight of the truck (loaded with cane) when it arrives</p> <ul style="list-style-type: none"> • Tare weight (empty truck) • Net weight (Gross - Tare) • Data storage and processing done by Smartweigh System. 	<p>Trained practical knowledge of how weighbridges function and their roles in the logistics of sugarcane Processing</p> <p>SmartWeigh System: learned how to operate it for accurate weighment & data management</p> <p>Technology Integration Insight into how digitization and technology streamline Industrial Operations</p>	<p>Network issues Frequent network disruptions affecting the connectivity and efficiency of SmartWeigh Systems</p> <p>Environmental Factors: Dust, rain, and noise from trucks and factory</p> <p>System Downtime Occasional downtime of the smartweigh system leading to delays and manual recording of weights</p> <p>Data Synchronization Problems</p>	<p>Regular maintenance of weighbridges</p> <p>Environmental Protection</p> <p>Introduce protective measures for equipment to shield them from environmental factors</p>	

Supervisor's Comments

WELL NOTED, WELL DONE.

J-0

Supervisor's Name

Signature

20.05.24

Date



DAILY LOGBOOK (MSU/SCI/IA/004)
 (PART A TO BE FILLED BY ATTACHEE)
 WEEK: WEEK DATE: 22/05/24

Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Supervisors Remarks
7am - 1pm	<p>ICT Help Desk Operation It supports various admin roles and privileges managing access control handling phone calls and overseeing multiple systems.</p> <p><u>Methods</u></p> <ul style="list-style-type: none"> • Admin roles and Privileges • Phone call Management • System management <ul style="list-style-type: none"> → SAP - Uses T codes → MM (Material Management) → Agriculture Management System → SmartWeigh → Zimbia → Smartselves 	<ul style="list-style-type: none"> • Admin Management Gained skills in administering user accounts and managing access control • Technical Support Learned effective communication and troubleshooting techniques to assist users • How different systems work and integrated 	<ul style="list-style-type: none"> • User Communication Difficulty in understanding user-reported issues due to vague descriptions • Time Management Balancing the demands of phone support with system administration tasks • Knowledge Gaps Need for continuous learning to keep up with system updates and new technologies 	<ul style="list-style-type: none"> Developing structured protocol for users to report issues including key information to be provided. Implement a feedback system to gather user input on the help desk service and identify areas for improvement 	

Supervisor's Comments

ACTIVITIES WELL DONE; PROCEDURES NOTED

J. O. Ia

Supervisor's Name

B. J. J. M

Signature

23/5/24

Date

DAILY LOGBOOK (MSUSCI/A/004)		WEEKDAY: THUR.	STATION: 101
(PART A TO BE FILLED BY ATTACHEE)			
Time	Activities and Methods	Things Learned	Challenges faced
9 am	<u>Activity:</u> Creating Website using Wordpress	Local server setup Gained knowledge in setting up a local server env. using Xampp	<ul style="list-style-type: none"> Database Configuration Issues with connecting wordpress to the database due to incorrect database details or permissions
1 pm	<u>Methods used:</u> <ul style="list-style-type: none"> Installation Xampp to create local server environment. Wordpress - Downloaded it and installed it on the local server Database Setup for the website Wordpress Configuration <ul style="list-style-type: none"> Ran wordpress installation wizard and connected it to newly created database. Complete setup → Site details Username, password for admin Theme Selection and Customization <ul style="list-style-type: none"> Selected suitable theme Customized theme to fit preference for groceries website 	<ul style="list-style-type: none"> Database Management using phpMyAdmin Wordpress Basics: Understood the installation and initial configuration of wordpress Plugin Utilization: Learned how to create add and configure plugins to extend the functionality of the website Theme Customization: To create visually appealing and functional website. 	<ul style="list-style-type: none"> Explore Plugins. To extend website functionality Stay updated with the latest Documentation: Maintain detailed documentation of the website development process including setup customization

Supervisor's Comments

ACTIVITIES WELL DONE.

J. Oyie
Supervisor's Name

B. J. Ju.
Signature

30/06/2014
Date

DAILY LOGBOOK (MSU/SCI/IA/004)

(PART A TO BE FILLED BY ATTACHEE)
WEEK: FOUR DATE: 27/05/24

WEEKDAY: MOR

STATION: SWITCHBOARD (Exchange Room)

Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Supervisors Remarks
10 am - 1 pm	<p><u>Activity:</u></p> <p>Visit to switchboard room: Overview → Observing the operations and components of the switchboard room, focusing on the private automatic branch exchange (PABX) system used for internal and external voice communication.</p> <p><u>Methods used:</u></p> <ul style="list-style-type: none"> Introduction to PABX private owned by MSC provide free internal communication within the organization. Components of PABX Hybrid System (Analog & digital) Analog → contains cards and cables connected to the main distribution frame (MDF) fiber cables run to endpoints CPU for managing PABX operations Electronic Voice Messaging (EVAM) Provides automated voice messaging services Media Gateway Card Enables external calls over 600 ports Software Interface: Manages PABX configurations, shows active internal communication numbers and integrates IP phones into network. 	<ul style="list-style-type: none"> PABX functionality Understanding how the PABX system facilitates both internal and external voice communication System Components Familiarity with the hardware and software components of PABX system Network Integration Insights into how IP phones and other endpoints are integrated into the PABX network Purpose of PABX Switchboard To control and manage all incoming and outgoing calls within the organization Facilitate seamless communication & efficient external customer interaction 	<ul style="list-style-type: none"> Technical Complexity in understanding the integration and management of hybrid (analog and digital) components. System Maintenance Ensuring the system is regularly maintained to prevent downtime and manage high call volumes effectively External line management especially during peak times. Network issues within the company. 	<ul style="list-style-type: none"> Regular Maintenance to ensure all components work effectively Documentation of system configuration, common issues and troubleshooting procedures Feedback Mechanism for users to report any issues or suggest improvement for the PABX system 	

Supervisor's Comments

OK, ACTIVITIES WELL DONE, PLEASE NOTES

J. B

Supervisor's Name

B. T. Jnr.

Signature

Date



DAILY LOGBOOK (MSU/SCI/IA/004)		WEEKDAY: TUE	STATION: Switchboard Human Resources		
Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Signatures
9 am	Switchboard Operation 10am	How operators manage phone calls both internal and external calls. Making and receiving calls using IP phones	Network issues Power surge		
11 am	Configuring on IP Phone <u>Methods</u> → Resetting IP Phone → Troubleshooting a network patch port → Troubleshooting Ethernet cable.	How to reset an IP phone back to default or factory reset Configuring an IP phone by setting up username, password and giving SIP Server IP address 192.168.10.10	N/A		

Supervisor's Comments

Ok, WEEK DONE; PROCEDURES CAPTURED.

J.O

Supervisor's Name

B. J. F. C

Signature

30/5/14

Date

5. DAILY LOGBOOK (MSU/SCI/IA/004)

(PART A TO BE FILLED BY ATTACHEE)
WEEK: FOUR DATE: 09TH/05/04

WEEKDAY: WEDM

STATION: TRANSPORT DEPARTMENT

Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Supervisors Remarks
9 am	<p>Activity: Troubleshooting Network Methods used: Identifying the problem by conducting a preliminary inspection on the switch</p> <ul style="list-style-type: none"> Testing Fibre Connection: Inspected fibre optic connectors and cables for physical damage or disconnections. Repairing Fibre Connection: Ensured proper alignment and cleanliness for fibre connectors and ports and SFP. 	<p>Fibre Optic Basics Understanding of how fibre optic cables function</p> <p>Repair Techniques Acquired practical skills in repairing and maintaining fibre optic connections</p>	<ul style="list-style-type: none"> Locating Faults: Difficulty in precisely locating faults within the fiber optic cable. 	<p>Training on fibre optic network maintenance and troubleshooting</p> <p>P: Preventive Maintenance Implement regular preventive maintenance schedules to minimize network downtime</p>	
			<p>Technical Expertise Initial lack of expertise in handling fibre optic tools equipment</p> <p>Time Consuming Repair Process was time-consuming, impacting departmental operations</p>		

Supervisor's Comments

Ok.

J. Ong'ata.

Supervisor's Name

Signature

Date



DAILY LOGBOOK (MSU/SCI/IA/004)

(PART A TO BE FILLED BY ATTACHEE)

WEEK: Four DATE: 30/03/24 WEEKDAY: THUR STATION: JCT

Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Sub Ref. 5.
7 am	<p><u>Activity :-</u> Configuring Cisco Switch terminals</p> <p><u>Method used :-</u></p> <ul style="list-style-type: none"> Setting Up PuTTY Opened Putty on laptop Configured it to connect to the Cisco switch via telnet Connected switch to laptop using console cable and com port. Connecting to E-Switch Configuring E-Switch Enabling EXEC mode 'enable' and providing password Global config mode 'configure terminal' Saving Configuration Using command 'write memory' or 'copy running-config start-up-config' 	<ul style="list-style-type: none"> Switch Configuration Gained practical experience in configuring Cisco switches Remote Access Learned to use PuTTY, Telnet for remote access and management of network devices 	<ul style="list-style-type: none"> Command familiarity Need for familiarity with Cisco commands for effective switch configurations Security Concerns Ensuring secure configuration and management practices to protect network devices 	<ul style="list-style-type: none"> Regular practice of switch configuration and command usage to enhance proficiency Documentation of configuration procedures and commands for future reference 	

Supervisor's Comments

Mr.

J - 0
Supervisor's Name

B. J. J.
Signature

5/4/24
Date

5. DAILY LOGBOOK (MSU/SCI/A/004)

(PART A TO BE FILLED BY ATTACHEE)

WEEK: FIVEDATE: 3rd/06/24WEEKDAY: MONSTATION: ICT

Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Supervisors Remarks
9 am	<p>Activity :- Troubleshooting hardware Components of a desktop Computer</p> <p><u>Method Used :-</u></p> <ul style="list-style-type: none"> Identifying the hardware issue by conducting preliminary inspection by observing error message displayed Cleaning the System Unit:- Removing dust using blower Compressed air canister Learning basic Parts of the System Unit motherboard, CPU, RAM, Hard Drive, Power Supply Unit, Cooling fans 	<ul style="list-style-type: none"> Hardware Troubleshooting Skills to identify hardware issues in a desktop computer Maintenance Practises Learned proper techniques for cleaning and maintaining Computer hardware to ensure optimal performance Components functions of the system Components Unit How to dispense excess power from System unit by pressing power button severally (Computers is off) 	<ul style="list-style-type: none"> Diagnosing Issues with advanced diagnostic tools in troubleshooting Delicate Components Handling them with care during cleaning Dust Removal Ensuring complete removal of dust without causing static discharge or damaging Components 	Further training in troubleshooting Regular maintenance cleaning to prevent dust accumulation Detailed documentation of troubleshooting steps, if any and solutions for future reference.	

Supervisor's Comments

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Supervisor's Name

Signature

B.M.J.W. 7/06/24

Date



DAILY LOGBOOK (MSU/SCI/IA/004)			
(PART A TO BE FILLED BY A ATTACHEE)		WEEKDAY: WED	STATION: LCT CAFE UG
Time	Activities and Methods	Things Learned	Challenges faced
10 am	<p><u>Activity:</u> Repairing a Kyocera Multipurpose Printer</p> <p><u>Methods Used:</u></p> <ul style="list-style-type: none"> Identifying errors:- Error C6230, C4001 and C4010 Troubleshooting errors cleared the fuser sensor ensured laser fibre cable is not faulty 	<p>Error codes knowledge and their meaning</p> <p>Components understanding the roles of various components like the developer unit, fuser unit and sensors</p>	<p>Technical knowledge (initial lack of in-depth knowledge about kyocera printer components)</p>
11 am	<p><u>Activity:</u> Repairing a Dot Matrix Printer</p> <p><u>Method Used:</u></p> <ul style="list-style-type: none"> Addressing the worn-out ribbon cartridge and replace with new one Clearing paper jam from the header area Testing 	<p>Printer Mechanics (internal components and operation of a dot matrix printer)</p> <p>Ribbon Replacement</p> <p>Paper jam Resolution to restore printer functionality.</p>	<ul style="list-style-type: none"> Accessing internal components of the printer Proper alignment of paper & ribbon Limited experience hands-on experience with dot matrix printers <p>Hands-On Experience Practicing maintaining dot-matrix printers</p> <p>Tool Availability Ensure availability of the necessary tools and replacement</p>

Supervisor's Comments

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JAMES OBIAD

Supervisor's Name

B. J. M.

Signature

5/6/24
Date

DAILY LOGBOOK (MSU/SCI/IA/004)

PART A TO BE FILLED BY ATTACHEE		DATE: 6 th /06/24	WEEKDAY: THUR	STATION: PUBLIC RELATIONS	
Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Supervisor's Remarks
9 am	<p>Activity: Troubleshooting and mapping network issues</p> <p>Method Used: Network Path Understanding: Mapped out the network path from the ICT department to the Public Relations department.</p> <ul style="list-style-type: none"> ICT → First switch in Training center → D-link switch → Mikrotik Router → fibre cable underground → Public relations switch <p>Initial Inspection: Checked the physical connection along the network path, ensuring cables were properly connected and intact.</p> <p>→ Verified that all switches and the router were powered on and functioning.</p>	<ul style="list-style-type: none"> Network Mapping Importance of mapping out the entire network path to effectively troubleshoot issues Basic Operation of a D-Link and Mikrotik router <p>→ A D-link switch is considered as not intelligent switch</p>	<ul style="list-style-type: none"> Complex Network Path. <p>The complexity of the network path required careful inspection and network testing at multiple points which was time-consuming.</p>	<p>Regular Training</p> <p>Participate in regular training sessions on trouble-shooting to enhance technical skills.</p>	

Supervisor's Comments

*Jn.**J. AGYOM*

Supervisor's Name

Signature

Biti Jn 14/6/24

Date



DAILY LOGBOOK (MSU/SCI/IA/004)

			WEEKDAY: THUR	STATION: Public Relations
Time	Activities and Methods	Things Learned	Challenges faced	Way forward
11 am	<ul style="list-style-type: none"> • Testing Network Segments <ul style="list-style-type: none"> → Conducted connectivity tests at each segment of the network → Used network diagnosis tools to ping devices and check for connectivity at each segment • Identifying and Resolving issues <ul style="list-style-type: none"> → Found issue was an intermittent connection in the fiber cable running from the Mikrotik router to the Public Relations switch • Final Testing <ul style="list-style-type: none"> Conducted end-to-end connectivity tests from Training Center to Public Relations to ensure network was fully operational <p>• Diagnostic Tools Gained proficiency in using network diagnostic tools to test connectivity and identify faults</p> <p>• Connecting the D-link to the Mikrotik Router. The D-link switch could only get internet from the Mikrotik and not the other way round as it was supposed to be</p> <p>• Faulty switch in Public Relations Department</p>			<p>• Documenting the maintenance of detailed network diagrams and documentation of common issues and their resolutions for future reference</p> <p>• Replace the switch with a working switch</p>

Supervisor's Comments

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JAMES OIGADA

Supervisor's Name

B. J.

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14/6/2014

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5. DAILY LOGBOOK (MSU/SCI/IA/004)

(PART A TO BE FILLED BY ATTACHEE)

WEEK: SIX

DATE: 10th/06/24

WEEKDAY: MON

STATION: ICT

Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Supervisors Remarks
10 am	<p><u>Activity:</u> Repairing a kyocera Multipurpose printer that had issues with the laser unit (Error C4101)</p> <p><u>Method Used</u></p> <ul style="list-style-type: none"> Initial Diagnosis Conducted preliminary inspection of the printer and its components. Error Code: C4101 <p><u>Description:-</u> BD initialization error</p> <p><u>Causes:</u> The BD signal was not detected for 1s after driving the polygon motor</p>	<ul style="list-style-type: none"> Laser Unit functionality Gained an understanding of the Components and functionality of the laser unit, in a multipurpose Printer. Laser unit is responsible for creating the image to be printed Cleaning the laser Unit using a dry cleaner liquid account 	<ul style="list-style-type: none"> Accessing Internal Components Difficulty in accessing and handling the internal Components of the laser unit without causing damage Initial lack of Experience Initial Unfamiliarity with the specific layout and component of the Printer's laser unit 	<ul style="list-style-type: none"> Hands on - experience Gain more experience with printer repairs Documentation of repair procedures Common issues and solutions for future reference 	

Supervisor's Comments

Ok

J. O

Supervisor's Name

Signature

B. J. J. Jr. of 12/06/24

Date



5. DAILY LOGBOOK (MSU/SCI/IA/004)

(PART A TO BE FILLED BY A ATTACHEE)

WEEK: SIX

DATE: 10th / 06 / 24

WEEKDAY: MON

STATION: ICT

Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Supervisors Remarks
8am	<p><u>Activity:-</u> Reinstalling Windows 10. <u>Operating Systems Method Used</u> <ul style="list-style-type: none"> Preparation: Back-up data, Obtain bootable USB drive with windows 10 check system requirements <ul style="list-style-type: none"> Installation Process Boot from USB Windows setup Disk Partitioning Installation Post Installation Set-up </p>	<p>OS Installation Process Gained Comprehensive understanding of reinstalling an OS</p> <p>BIOS/UEFI Configuration how to access and configure BIOS/UEFI Settings to change the boot order</p> <p>Disk Management Disk Partitioning Skills</p> <p>Driver Installation Updating drivers to ensure h/w compatibility</p>	<ul style="list-style-type: none"> Backup and Data Restoration Driver Issues finding and installing the correct drivers for some hardware components Unexpected Errors during installation, requiring troubleshooting and restarting the process 	<p>Documentation of installation process and solutions for common errors to streamline future installations.</p>	

Supervisor's Comments

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Supervisor's Name

BT-J-2-EF

Signature

10/06/24

Date



5. DAILY LOGBOOK (MSU/SCI/IA/004)
 (PART A TO BE FILLED BY A ATTACHEE)

WEEK: SIX

DATE: 17th /06/24

WEEKDAY: TUE

STATION: ICT NAME WEIGHBRIDGE

Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Supervisors Remarks
11 am 1pm	<u>Activity :-</u> Installing Company Software on Computer for Transport department <u>Method used</u> • Preparation:- Software Acquisition Installation Process Install SAP Install Agriculture Management System (AMS), Install Chrome, Install Adobe PDF Reader <u>Activity:</u> Setting up Desktop in Weighbridge Connected the desktop to power, network and peripheral devices, (monitor, keyboard, mouse, printer)	<ul style="list-style-type: none"> Software Installation Gained skills in installing and configuring all software applications Ensuring a variety of essential software applications was compatible with the operating system and other installed application Physical Setup. Troubleshooting skills by addressing issues that arose during installation and setup 	<ul style="list-style-type: none"> Software Compatibility Ensuring all software was compatible with the operating system and other installed application Physical Setup. Troubleshooting skills by addressing issues that arose during installation and setup 	Detailed Guides Create detailed installation and configuration guides for commonly used software to streamline process Regular Practice in software installation.	

Supervisor's Comments

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Supervisor's Name

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Date

14/06/24



DAILY LOGBOOK (MSU/SCVIA/004)		WEEKDAY: WEN	STATION: EYES	
Time	Activities and Methods	Things Learned	Challenges faced	Way forward
9 am	<p><u>Activity</u>: Troubleshooting Fiber Connection</p> <p><u>Method</u>:</p> <ul style="list-style-type: none"> Gather Tools Optical Time-Domain Reflectometer (OTDR) Laser Torch SFP(Small form-factor Pluggable) module <p>Troubleshooting Process:-</p> <p>Inspecting with laser Torch:-</p> <p>Used laser torch to visually inspect the fiber cable for any visible damages or break.</p> <ul style="list-style-type: none"> Checked ODF(optical Distribution Frame) for any loose connections, misaligned fibers or damaged connectors. 	<p>Use of laser Torch for quick visual inspections of fiber cables</p> <p>ODF Management</p> <p>Improved knowledge of managing and troubleshooting issues within the ODF</p> <p>SFP Testing</p> <p>How to use SFP modules to test fiber connections</p>	<p>Handling Delicate Equipment</p> <p>Handling delicate fiber optic cables and splicing equipment without causing further damage</p> <p>Time constraints</p> <p>Entire troubleshooting was process was time consuming</p>	<p>Documentation</p> <p>Keep detailed records of common issues and their solutions for reference during future troubleshooting.</p>

Supervisor's Comments

My Activities well done.

James Phiri

Supervisor's Name

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Signature

12/6/24

Date

DAILY LOGBOOK (MSU/SCI/IA/004)

5. (PART A TO BE FILLED BY ATTACHEE)
 WEEK: SEVEN DATE: 20/06/24 WEEKDAY: THUR STATION: SECURITY

Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Supervisors Remarks
7 am	<p><u>Activity:-</u> Adding a domain account to a computer to integrate it into the company's network domain.</p> <p><u>Method Used</u></p> <ul style="list-style-type: none"> • Accessing System Settings → Advanced System Settings. • Joining The Domain Computer Name tab Domain Name Credentials Prompt Verification Restart Prompt. 	<p>Domain Integration. Process of adding a computer to domain.</p> <p>System Navigation Improved Navigation skills within windows settings</p> <p>Credential Management Experience in handling domain credentials and ensuring secure authentication.</p>	<p>Credential errors:- Initial issues with entering correct domain credentials requiring verification with IT department.</p> <p>Restart Delays</p> <p>The required system restart took longer than expected.</p>	<p>Pre-Verification Verify domain credentials and network connectivity before starting the process to minimize interruption.</p> <p>Documentation of steps and common issues encountered during the process for future reference and quick troubleshooting.</p>	

Supervisor's Comments

Supervisor's Name

Signature

Date



5. DAILY LOGBOOK (MSU/SCI/IA/004)		WEEKDAY: MON	STATION: ICT		
Time	Activities and Methods	Things Learned	Challenges faced	Way forward	Sup. Rem.
10 am	<p><u>Activity:</u> Reinstalling Windows 10 Operating System on laptop.</p> <p><u>Method Used:</u></p> <ul style="list-style-type: none"> - Preparation: Backup data, Obtain Installation media, USB drive - Installation Process <ul style="list-style-type: none"> → Boot from USB → Windows set-up → Disk Partitioning → Installation - On-Screen Instruction → Post-Installation set-up. → Configure basic settings such as region - language and network → Create user account → Install necessary drivers and software updates → Restored back-up data and essential applications 	<p>OS installation Process including Preparations, booting from installation media and Post-installation Set-up.</p> <p>Bios/UEFI Configuration Settings to change the boot order</p> <p>Disk Management during the installation process</p> <p>Driver Installation updating device drivers to ensure hardware compatibility.</p>	<p>Backup and Data restoration</p> <p>Ensuring all important data was backed-up correctly without issues</p> <p>Post-installation system reinstallation</p> <p>Driver Issues Encountered difficulties finding and installing the correct drivers for quick access for some hardware components during installation</p> <p>Time consuming process - The entire installation process</p> <p>Unexpected errors during installation required restarting entire process</p>	<p>Regular Back-ups to minimize the risk of data loss during system reinstallation</p> <p>Driver Repository of commonly used drivers for quick access during component installation</p> <p>Further Training sessions on advanced operating system installation</p>	
1 pm					

Supervisor's Comments

Supervisor's Name

Signature

Date