# Certificate

Certified True Copy Of Original

NYANGULU AND CO.
DESIGN HOUSE
P.O. BOX 32049 LUSAKA
ADVOCATES & COMMISSIONERS FOR OATHS

*This is to Certify that*

**NATHAN MOONO**

*successfully completed a course of instruction in*

**SWITCHING**

*Conducted from* **16.10.2000** *to* **04.07.2003**

*at*

REPUBLIC OF
INSPECTOR GENERAL
06 JUN
SENIOR A
COMMISSIONER
P.O. BOX 501

# .MINATION FOR THE SCHOOL CERTIFICATE AND G

*(see overleaf)*

940840672
106

1997

| | | |
|---|---|---|
| IAGE | GRADE THREE | STANDARD |
| | X | MERIT |
| | | ABSENT |
| THEMATICS | ONE | DISTINCTION |
| | THREE | MERIT |
| | FOUR | MERIT |
| | THREE | MERIT |
| | THREE | MERIT |

Certified true Cop

REPUBLIC OF ZAMBI
INSPECTOR GENERAL OF
06 JUN 200
COMMISSIONER FOR
P.O. BOX 50103, Lu

:ORDED 07

Founded 1955 Incorporated 1958

THE ENGINEERING INSTITUTION OF ZAMBIA

# MEMBERSHIP CERTIFICATE

(EIZ ACT No. 17 of 2010)

*This is to certify that*

## *Nathan Moono*

*was admitted as*

*a*

**FULL TECHNICIAN**

*of*

The Engineering Institution of Zambia

*on the*

(SECTION 12, EIZ ACT No. 17 of 2010)

# REGISTRATION CERTIFICATE

This is to certify that

## NATHAN MOONO

Having met approved qualifications, training and experience has been registered as a

**Registered Technician**

**(R. Tec)**

and is hereby authorised to use the above title

.....

Chairman

# Certificate

# 培 训 证 书

本证书授予 自 至

This is to certify Mr./Ms. MOONO NATHAN from 2014-06-23 to 2014-07-04

完成此培训项目:

completed the training program for

Core Network Operation & Maintenance Training

该项目包含如下课程

The training program includes

| 课程编码（ID） | 课程名称（Courses） |
| --- | --- |
| 14A0KECLC401 | **GGSN9811 Routine Operation and Maintenance Training**<br>**SGSN9810 Routine Operation and Maintenance Training (ATCA)**<br>**GPRS/UMTS PS Fundamental Training**<br>**GU UMG8900 Operation and Maintenance Training**<br>**MSOFTX3000 (ATCA) Operation and Maintenance Training** |

# Of Participation

This is to certify that

## Nathan Moono

has successfully completed the training courses of

## Level B of ZXSDR-BTS Commissioning Introduction Course

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P.O. BOX 32049 LUSAKA

Date: From 2013/04/04

Till 2013/04/08

ID: 13IUGUB30605

This is to certify that

# Moono Nathan

has successfully completed the training courses of

Level A of NGN
and Passed the Examination

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Date: From 2011/12/03

Till 2011/12/23

ID: 11IUFOA101041424

Address: [illegible] Shenzhen, China

NYANGULU AND CO.
DESIGN HOUSE
P.O. BOX 32049 LUSAKA

sco Networking Academy®

Certifi

# Exploration: Network Fundamentals

sco Networking Academy® course, administered by the undersigned instr
ently:

- ow communication works in data networks and the
- e the devices and services that are used to support cations across an Internetwork
- ıe role of protocols in data networks
- the importance of addressing and naming schemes layers of data networks
- the protocols and services provided by the n layer in the OSI model and describe how this ates in sample networks
- ıe operations and features of the transport layer and services
- Analyze the operations and fe protocols and services and ex of routing
- Design, calculate, and apply s
- Describe the operation of pro
- Explain the role of physical la
- Build a simple Ethernet netwo
- Use Cisco® CLI commands to switch configuration and verifi

Certified t
Original

bia

Sep 19, 2013
Date

Instructor Signature

# States Telecommunications Training

# Diploma

*United States Telecommunications Training Institute of Washington, D.C. hereby certifies that*

## Nathan Moono

*has successfully completed a course of instruction in*

## 3G Wireless Broadband

*Sponsored by*

QUALCOMM Incorporated

San Diego, CA July 18 - 22, 2005

Michael R. [illegible]

*USTTI Chairman o*

isco Networking Academy®

Certi

# Exploration: Routing Protocols and Conc

isco Networking Academy® course, administered by the undersigned inst
iently:

- the purpose, nature and operations of a router and ables
- , configure and certify router interfaces
- he purpose and procedure for configuring static
- he characteristics of distance vector routing
- the network discovery process of distance vector rotocols using Routing Information Protocol (RIP)
- the functions, characteristics, and operations of the otocol
- and contrast classful and classless IP addressing
- Describe classful and classl networks
- Design and implement a cla a given network
- Demonstrate comprehensive
- Describe the main features a Interior Gateway Routing Pr
- Describe the basic features protocols
- Describe the purpose, nature Shortest Path First (OSPF) p

Certified
Signed

nbia

Sep 20, 2013
Date

NYANGULU AN
P.O.

Instructor Signature

isco Networking Academy®

Certi

# Exploration: LAN Switching and Wireless

isco Networking Academy® course, administered by the undersigned inst
iently:

- oasic switching concepts and the operation and ation of Cisco switches
- enhanced switching technologies such as VLANs, unking Protocol (VTP), Rapid Spanning Tree (RSTP), Per VLAN Spanning Tree Protocol ), and 802.1q
- and describe the purpose of the components in a eless network, such as Service Set Identification Basic Service Set (BSS), and Extended Service Set
- Configure, verify, and troubl Cisco® switches, interVLAN
- Identify, prescribe, and resol media issues, configuration switch hardware failures

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NYANGULU
P.O. BOX 3
ADVOCATES S.C

mbia

**Sep 21, 2013**
Date

Instructor Signature

Cisco Networking Academy®

Certi

# Exploration: Accessing the WAN

Cisco Networking Academy® course, administered by the undersigned ins
ciently:

- e the impact of Voice Over IP and Video Over IP tions on a network
- e the components required for network and t communications
- ent basic switch security measures such as port , trunk access, and management VLANs
- ure, verify, and troubleshoot DHCP and DNS ons on a router
- e the functions of common security appliances and tions
- Describe, configure, apply, Access Control Lists base
- Explain, configure, verify, a Address Translation (NAT)
- Configure and verify basic including serial, Point-to-P
- Describe the importance, components of VPN techn
- Describe recommended s network devices

Certified Virginia

ambia

NY

**Sep 21, 2013**

Date

Instructor Signature

This is to certify that:

**MR / MRS / MISS** NATHAN MOONO

**NRC NUMBER:** 118605/18/1 **STAFF NUMBER:** 30491

was a registered student of the Zambia Telecommunications Staff Training College.

Successfully completed training in :

## SWITCHING

Conducted from **16.10.2000** to **07.11.2003**

His/Her performance was as follows:

| | | MODULE/COURSE CONTENT | GRADE |
|---|---|---|---|
| 1.0 | 300 | ELECTRICAL PRINCIIPLES | B |
| 2.0 | 301 | ELECTRONICS COMPONENTS & CIRCUITS | C |
| 3.0 | 302 | DIGITAL ELECTRONICS & BASIC COMPUTERS | A |
| 4.0 | 303 | TELECOMMUNICATIONS APPRECIATION | B |
| 5.0 | 551 | OPERATION & MAINTENANCE OF OCBE10B | B |
| 6.0 | 552 | NEAX 61E | B |
| 7.0 | 554 | CDMA WLL | A |

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ADVOCATES & COMMISSIONER'S FOR OATHS

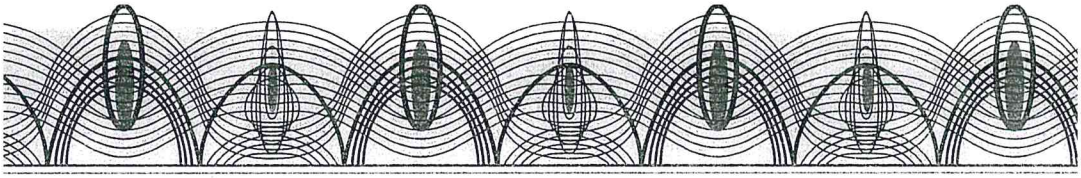
# This Certificate of Unit Credit towards

TECHNICIAN CERTIFICATE IN TELECOMMUNICATIONS AND ELECTRONICS ENGINEERING

is awarded to MOONO NATHAN

WHO WAS SUCCESSFUL IN THE FOLLOWING FOUR UNITS

| | |
|---|---|
| MATHEMATICS 1 | DISTINCTION |
| PHYSICAL SCIENCE 1 | DISTINCTION |
| TELECOMMUNICATION SYSTEMS 1 | DISTINCTION |
| COMMUNICATION STUDIES 1 | PASS |



QUALCOMM

# RTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT

## NATHAN MOONO

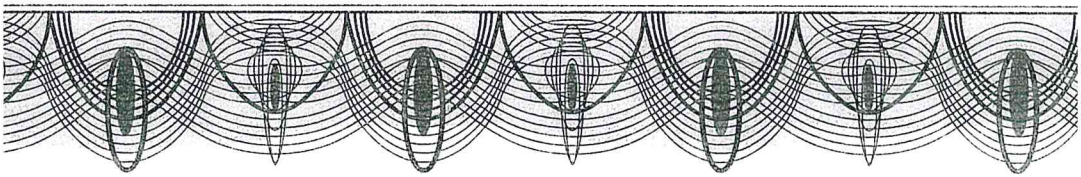
HAS COMPLETED THE QUALCOMM COURSE

## 3G Wireless Broadband

July 21, 2005

James Silk

*James Silk*
CDMA University



# 培 训 证 书

本证书授予 Nathan Moono 自 2018-04-16 至 2018-04-24

This is to certify Mr./Ms. from to

完成此培训项目:

completed the training program for

**CORE Operation and Maintenance Training**

该项目包含如下课程

The training program includes

| 课程编码（ID） | 课程名称（Courses） |
|---|---|
| ODR102003 | MSOFTX3000 (ATCA) OMU GUI Operation & Server Operation |
| ODR002001 | MSOFTX3000 Performance Management & Routine Operation |
| DR002009 | iGWB (ATCA) Operation and Maintenance |
| ODR002010 | UMG8900 System Backup and Recovery |
| ODS002001 | UMG8900 Common Operation, Routine Operation & Maintenance |
| ODS002002 | UMG8900 Alarm Management and Operation |
| ODS002003 | HSS9860 Routine Operation and Maintenance-NFV Platform (vHSS) |
| ODS002002 | VHSS9860 TOP Alarm Management |

SIGNATURE OF HOLDER

N. Moono

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DESIGN HOUSE
P.O. BOX 32049 LUSAKA

REPUBLIC OF ZAMBIA
NATIONAL REGISTRATION CARD

CARD No. Z2825605

FULL NAME NATHAN MOONO

DATE OF BIRTH 5.11.77

PLACE OF BIRTH T.MUFULIRA D.MUFULIRA

SEX M

VILLAGE NYAWA

CHIEF NYAWA

DISTRICT KALOMO

SPECIAL MARKS NIL

REGISTRATION DATE 4.3.98