



Prospectus 2013

Centre for Learning

MISSION STATEMENT

To develop ICT functional skills across business the delivery value chain and across all levels of operations at a cost advantage

VISION STATEMENT

To be a leading, efficient and effective provider of ICT skills development solutions

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School of Technology

Faculty of ICT and Systems

Students trained in the ICT Faculty gain an excellent foundation in the principles of ICT in a converged world. The many and varied programmes, short courses, learnerships and graduate intern programmes help to develop the competencies of ICT practitioners, nurturing their ability to conceptualise, analyse and solve problems back in the workplace.

The ICT Faculty covers a wide range of subjects across the full spectrum of telecommunications, including Converged IP, NGN Networks (Access, Edge, Core and Transport), Optic, and OSS, BSS. The Faculty works in tandem with the ITU, CTO, SATA, industry and academia, and is therefore at the cutting edge of ICT trends worldwide.

Course Titles	
ATM Technologies	
ATM: Technology	3 Days
Broadband	
Ethernet Link & Ethernet Access	2 Days
NFS: MSAN Functional	2 Days
Huawei MSAN: CNFO - 1st Line Maintenance	3 Days
Alcatel ISAM: CNFO 1st Line Maintenance	3 Days
Business Systems	
Business Systems for Service Desk Agents	10 Days
DECT For OptiCon	2 Days
Install and Maintain: OptiCon SBG-Basic	3 Days
Introduction to Business Systems	4 Days
iPECS	4 Days
OptiCon - ISDN Configuration	1 Day
OptiCon 300/600	2 Days
Opticon 64/100	5 Days
OptiCon IP 32	2 Days
OptiCon SBG-Advance	5 Days
PC Admin for OptiCon	2 Days
Teltrace Office (TABS-IT)	2 Days
Voicemail For OptiCon	1 Day
Cables	
Confined Space Gas Detection Level 2	1 Day
Conformance Testing for DSL Technologies	3 Days
Crowcon Gas Detector - Level 1	1 Day
Crowcon Gas Detector - Level 2	1 Day
Contractor Management	
Service Provider Contract Management	5 Days
Customer Fault Handling	
Customer Problem Handling Fault Logging	2 Days
EBSC: ADSL Troubleshooting	3 Days
IRTMS for Consumer Fault Reporting	2 Days
Orientation to the NSM - NCC Call Centre	2 Days
Data Networks	
Data Communication & Network Technology	5 Days
Essentials of Data Comms & Networking	5 Days
Frame Relay and SAIX Concepts	1 Day
LAN: Technology Overview	2 Days
TELLABS 8100: Field Operations	3 Days

TELLABS 8100: Network Overview	1 Day
TELLABS 8100: Test Centre Operations	5 Days
TDM 2 IP	5 Days
Digital Loop Carrier Technologies	
Digital Loop Carrier: UMC1000E	2 Days
DSL Technologies	
ADSL Installation and Maintenance*	4 Days
ADSL: Introduction	1 Day
Introduction to the Huawei Mini DSLAM	5 Days
Transmission: HDSL - ECI Exline 2	2 Days
Earthing	
Earthing: Structural and Equipment	4 Days
Exothermic Weld	AM
Surge and Lighting Protection	2 Days
Energy	
Electrical: Module 0 - Induction	5 Days
Electrical: Trade Test Preparation	4 Weeks
Electrical: Module 5 - AC Motors	12 Days
Electrical: Module 4 - Transformers	5 Days
Electrical: Module 3 - Wiring	5 Days
Electrical: Module 2 - Cables	5 Days
Electrical: Module 1 - Wireways	5 Days
Electrical: Module 6 - Testing	3 Days
Wiring of Premises SANS 10142-1	2 Weeks
EWSD	
EWSD: Overview	2 Days
Fitting & Faults	
Overhead Distribution	5 Days
Indoor Cabling/Wiring	4 Days
Fault Localization	3 Days
Overhead Distribution Safe Working Proce	2 Days
MDF & SDC Working Procedures	1 Day
ICT Fundamentals	
Transmission: Transmission Principles	5 Days
Transmission: Digital Principles	5 Days
Transmission: SDH Orientation	3 Days
Transmission Technology Overview	4 Days
Intelligent Network - Introduction	2 Days
Logic: Principles*	5 Days
Transmission: 2Mb/s Inst & Mntce	5 Days
Basic Tools Course	1 Day
Principles of Satellite Communications	4 Days
NGN Essentials	3 Days
Ethernet Fundamentals	5 Days
ICT Products and Services*	3 Days
Fundamentals of Electricity	2 Weeks
Electricity & Electronics Principles*	5 Days
21st Century Telecom Fundamentals*	4 Days
Switching Systems: Introduction	3 Days
Internet Service Provider	
Telkom Internet Support Fundamentals	5 Days
ADSL Support Fundaments for EBSC	5 Days
IP Technologies	
Metro Ethernet: Service Router	3 Days

IP: Voice over IP	2 Days
Basic Switch Installation & Maintenance	5 Days
Metro Ethernet: SAM 5620 Introduction	4 Days
Metro Ethernet: T5C Routing Switch	2 Days
Basic Cisco Router Installation & Maint.	4 Days
Hosted IP Contact Centre (HIPCC) Intro	2 Days
Cisco Certified Network Associate	5 Days
IP Skills Advanced	5 Days
Siemens Surpass: Solutions and Products	4 Days
Siemens Surpass: SIP Overview	2 Days
ES Data Enclosure Assembly and Cabling	2 Days
IPECS ES Switch Setup and installation	2 Days
SAR-8/F Configuration and Maintenance	3 Days
Metro Ethernet Service Aggregation Switc	2 Days
ISDN	
ISDN Basic Rate	3 Days
ISDN: Introduction	2 Days
Lines	
Power Crossing: Safe Working Proc	1 Day
Ladders and Poles: Safe Working Proc	1 Day
Shared Pole Routes: Safe Working Proc	1 Day
Multi-channel Technologies	
SOR 18 System	2 Weeks
Network Infrastructure Provisioning	
Radio: RASGIS Database - Introduction	3 Days
PNR and Estimator	3 Days
Radio: ICS Telecom Planning Tool	5 Days
Radio Principles for Planners	3 Days
Radio: RASGIS Database - Advanced	4 Days
Network Surveillance	
Transmission: SDH Netw.Management EM-OS	3 Days
IRTMS: End Users	2 Days
UNIBase: Fault Management	2 Days
Network Surveillance - Vendor	
NICOTRA RFTS TRAINING	5 Days
OCB283 - Vendor	
1357 ULIS Delta NTI10 - R12 PSTN	3 Days
Optic Fibre Technologies	
Optic Fibre: 1531 FL 16 x 2 Mb/s System	3 Days
Optical and DWDM Network Principles	3 Days
DWDM: ADVA FSP 3000 System	3 Days
Optic Fibre : Introduction to	1 Day
Optic Fibre: Technology	2 Weeks
DWDM: Siemens hiT 7500 System	5 Days
Sycamore SN 16000 ASTN Switch	5 Days
Pay Phones	
Payphone Maintenance	3 Days
Radio Technologies	
Microwave Radio: Ericsson Mini Link E	2 Days
MINI-LINK TN Operation & Maintenance	5 Days
HDR4 Microwave System	2 Days
Alvarion Wimax System	3 Days
Inst & Maint of WiMAX CPE (Breezemax)	2 Days
SAIE PDH and SDH Radio Links ALS Series	5 Days

WCDMA: CPE Installation & Maintenance	1 Day
Radio Principles	2 Weeks
Satellite Technologies	
VSAT Gilat: Customer Equipment	5 Days
VSAT Hughes: Remote Inst & Mntce	5 Days
SDH Technologies	
SDH: Add-Drop Mux -SMA1/4	5 Days
Microwave Radio: 155 Mb/s SDH	5 Days
NG SDH: SURPASS hiT 70xx O&M	5 Days
NG SDH: hiT 7030, 7025/35, 7080 O&M	5 Days
Telkom Mobile	
Telkom Mobile: Technology Overview	2.5 Days
Mobile: Signalling and Traffic Cases	5 Days

* = Courses are Unit Standard Aligned

The following courses are available subject to terms and conditions.

Enquiries must be directed to the Key Account Manager Abigail Sono sonoat@telkom.co.za

Broadband

<i>5520AMS Administration</i>	<i>2 Days</i>
<i>Access Network Related IP</i>	<i>5 Days</i>
<i>DSLAM SmartAX MA5600T Series Planning</i>	<i>3 Days</i>
<i>DSLAM SmartAX MA5600T Series 2nd Line Ma</i>	<i>7 Days</i>
<i>DSLAM SmartAX MA5600T Series 3rd Line Ma</i>	<i>2 Weeks</i>
<i>5529 APC</i>	<i>1 Day</i>
<i>5529 OAD</i>	<i>1 Day</i>
<i>5529 SDC</i>	<i>1 Day</i>
<i>5530 Network Analyzer - Copper Admin</i>	<i>1 Day</i>
<i>5530 Network Analyzer - Copper Northboun</i>	<i>1 Day</i>
<i>5530 Network Analyzer - Copper Operation</i>	<i>2 Days</i>
<i>5530 Network Analyzer - Fibre Operation</i>	<i>2 Days</i>
<i>1360COM - Operation</i>	<i>1 Day</i>
<i>7302 ISAM for Voice / 5520AMS Operator</i>	<i>5 Days</i>
<i>7302ISAM + 5520AMS Part1</i>	<i>5 Days</i>
<i>7302ISAM + 5520AMS Part2</i>	<i>5 Days</i>
<i>735x ISAM xDSL and 5520 AMS Operator</i>	<i>5 Days</i>
<i>7510 MGW</i>	<i>2 Days</i>
<i>Custom MSAN Solution Overview</i>	<i>5 Days</i>
<i>Custom MSAN Solution Overview CS</i>	<i>5 Days</i>
<i>1360COM - Server Administration</i>	<i>2 Days</i>
<i>iManager U2000 Operation</i>	<i>3 Days</i>
<i>MSAN SmartAX MA5600T(VOIP) Series 2nd Li</i>	<i>3 Days</i>
<i>TAC03051 - 7302 ISAM for Voice / 5520AMS</i>	<i>5 Days</i>
<i>U2000 Administration</i>	<i>3 Days</i>
Data Networks	
<i>Implementing MPLS Technologies</i>	<i>5 Days</i>
IP Technologies	
<i>Cisco Sales Essentials (CSE)</i>	<i>3 Days</i>
<i>Designing Cisco InterNetwork Solutions</i>	<i>5 Days</i>
<i>Imp Cisco Unified Comms VoIP & QoS v8.0</i>	<i>5 Days</i>
<i>Implementing Intrusion Protection System</i>	<i>4 Days</i>
<i>Configuring BGP on Cisco Routers</i>	<i>5 Days</i>
<i>Implementing Cisco QOS</i>	<i>5 Days</i>

<i>Securing Networks with Routers&Switches</i>	5 Days
<i>Wide Area Application Services (WAAS)</i>	3 Days
<i>Impltng Cisco IOS Netw Secrity (CI-IINS)</i>	5 Days
<i>Implementing Cisco Switched Networks v1</i>	5 Days
<i>Troubleshooting and Maintaining Cisco IP</i>	5 Days
<i>Implementing Cisco IP Routing v1.0 ROUTE</i>	5 Days
<i>Design CiscoNetworkServArchitec (ARCH)</i>	5 Days
<i>Cisco Unified Wireless Networking</i>	5 Days
<i>Intro Cisco Voice & Unified Com Admin V8</i>	5 Days
<i>Imp Cisco Unified Comms Man P1 v8-CIPT1</i>	5 Days
<i>Imp Cisco Unified Comms Man P2 v8-CIPT2</i>	5 Days
<i>hiQ 4200 OAM R14 (FN4202-14A)</i>	7 Days
<i>Acme Packet N-N SD Conf (FN4422-65A)</i>	5 Days
<i>SURPASS hiE 9200 IP OAM V5.2(FN4102-52A)</i>	7 Days
<i>Movius Mereon 6000 MS V4.1 (FN4402-41A)</i>	2 Days
<i>hiQ 4200 Extended Sys Trg (FN4203-14A)</i>	3 Days
<i>Impl Cisco SP NG Edge Net Serv (SPEDGE)</i>	5 Days
<i>Integ Cisco Unified Comms Apps (CAPPS)</i>	5 Days
<i>Trbleshoot Cisco Unif Comms v8 (TVOICE)</i>	5 Days
<i>hiQ4300 OAM Adm & CMan Serv (FN4232-14A)</i>	5 Days
<i>5620 SAM R8.0 IP/MPLS SERVICES PROVISION</i>	4 Days
<i>Mon & Alrm of hiQ via iNMC (FN4255-14A)</i>	AM1
<i>5620 SAM NETW & SERV TROUBLESHOOTING</i>	4 Days
<i>Impl Cisco Data Centr App Serv v2(DCASI)</i>	5 Days
<i>Cisco Data Center UC Desgn v3.0 (DCUCD)</i>	4 Days
<i>Cisco Data Center UC Impl v3.0 (DCUCI)</i>	5 Days
<i>Depl Cisco ASA Firewall Sol (FIREWALL)</i>	5 Days
<i>Cisco Wireless LAN Advanced Topics(CWLA)</i>	4 Days
<i>Impl Adv TelePresence Vid Solutions Pt2</i>	5 Days
<i>Cisco Serv Prov Adv Netw Rtg(SPADVROUTE)</i>	5 Days
<i>Impl Cisco Unity Con V8.0 (IUC)</i>	5 Days
<i>Imp Cisco Serv Prov NG CN Serv(SPCORE)</i>	5 Days
<i>Bld Cisco Serv Prov NG Net Pt 1(SPNGN1)</i>	5 Days
<i>Bld Cisco Serv Prov NG Net Pt 1(SPNGN2)</i>	5 Days
<i>IPv6 Fund, Desgn & Deployment (IP6FD)</i>	5 Days
<i>Alcatel-Lucent Quality of Service</i>	5 Days
Metrology	
<i>Introduction to Measurement</i>	2 Days
<i>ISO 17025 Laboratory Systems</i>	3 Days
<i>Method Valid Proc & Rep Writ Calib-Metro</i>	1 Day
<i>Uncertainty of Measurement-GUM-Physical</i>	5 Days
<i>Statistical Process Control</i>	2 Days
Network Infrastructure Provisioning	
<i>Electrical: Trade Test Preparation</i>	5 Weeks
<i>Cisco Unif Wireless Site Srv v2 (CUWSS)</i>	5 Days
<i>Imp Cisco Data Cent Unif Fab v4 (DCUFI)</i>	5 Days
Radio Technologies	
<i>SAIE Network Management NMS 5UX</i>	5 Days
Telkom Mobile - Vendor	
<i>Huawei GSM Fundamental</i>	2 Days
<i>Huawei GSM/UMTS Softswitch Fundamentals</i>	1 Day
<i>Huawei LTE System Overview</i>	1 Day
<i>Huawei LTE eRAN Network Operation</i>	4 Days
<i>Huawei LTE eRAN Field Maintenance</i>	2 Days

<i>Huawei SAE Network Fundamental</i>	<i>2 Days</i>
<i>Huawei EPC Principle Fundamental Trainin</i>	<i>1 Day</i>
<i>Huawei Single EPC Solution Introduction</i>	<i>1 Day</i>
<i>Huawei MSOFTX3000 HW System (LTE)</i>	<i>1 Day</i>
<i>Huawei MSOFTX3000 Data Conf (LTE)</i>	<i>6 Days</i>
<i>Huawei MSOFTX3000 O&M (LTE)</i>	<i>3 Days</i>
<i>Huawei UMG8900 Data Conf (LTE)</i>	<i>2 Days</i>
<i>Huawei GU UMG8900 HW System (LTE)</i>	<i>1 Day</i>
<i>Huawei GU UMG8900 O&M (LTE)</i>	<i>2 Days</i>
<i>Huawei LTE air interface</i>	<i>3 Days</i>
<i>Huawei EPC USN Routine O&M</i>	<i>2 Days</i>
<i>Huawei LTE eRAN Feat. & Alg.</i>	<i>5 Days</i>
<i>Huawei LTE Protocols and Proc</i>	<i>2 Days</i>
<i>Huawei EPC USN Data Configuration Traini</i>	<i>3 Days</i>
<i>Huawei EPC UGW Routine O&M</i>	<i>2 Days</i>
<i>Huawei EPC HSS O&M</i>	<i>4 Days</i>
<i>Huawei UGW Data Configuration</i>	<i>3 Days</i>

Programmes

Course Titles	Duration
FETC: Telecom Network Operations	
FETC: Telecom Network Operations	300 Days
ICT Programme	
ICT 101: NGN Technology Orientation	2.5 HRS
ICT 101: Access - ADSL	AM
ICT 101: Access - Optic and Satellite	4 HRS
ICT 101: Access - Wireless and Mobile	2 HRS
ICT 101: Access - Metro Ethernet	4 HRS
ICT 101: Access - Cellular Evolution	3 HRS
ICT 101: Core - Diginet and ATM	3 HRS
ICT 101: Core - IP/MPLS	4 HRS
ICT 101: Services - VPN Technology	4 HRS
ICT 101: Services - VoIP	3 HRS
ICT 101: Services - Cloud Technology	4 HRS
ICT 101: Services - Delivery Value Chain	5 HRS
