

Digital Transformation of African TVETs

Being 4IR Relevant post COVID-19

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Business Value of CSR

“What is good for the world and what is good for business are more closely connected than ever before.”

Chuck Robbins | Cisco CEO

Networking **CISCO** Academy

Be the bridge to career possibilities for people everywhere by providing the best workforce development program in the industry.

3M

Students globally per year by 2023



Networking Academy Curriculum Portfolio

October 2020

Explore

Introduction to exciting opportunities in technology.

- ▲ Get Connected
- ▲ Introduction to Packet Tracer
- ▲ NDG Linux Unhatched
- ▲ Introduction to Cybersecurity
- ▲ Cybersecurity Essentials
- ▲ Introduction to IoT
- ▲ Entrepreneurship

Career

Preparation for entry level positions.



Digital Essentials

- ★ ● ■ IT Essentials (H/W & S/W)
- ▲ NDG Linux Essentials
- ▲ Networking Essentials

- ▲ PCAP: Programming Essentials in Python
- Hackathon Playbook (Design Thinking)



Networking

CCNA:

- ★ ● ■ Introduction to Networks (ITN)
- ★ ● ■ Switching, Routing, & Wireless Essentials (SRWE)
- ★ ● ■ Enterprise Networking, Security & Automation (ENSA)

CCNP Enterprise:

- ★ ● ■ Core Networking (ENCOR)
- ★ ● ■ Advanced Routing (ENARSI)



Programmable Infrastructure

Infrastructure Automation:

- ★ ● ■ DevNet Associate
- Workshop: Network Programmability
- Workshop: Experimenting with REST APIs
- Workshop: Model-Driven Programmability

Internet of Things:

- ★ ■ IoT Fundamentals: Connecting Things
- ★ ■ IoT Fundamentals: Big Data & Analytics



Cybersecurity

- ★ ● ■ CyberOps Associate
- ★ ■ CCNA Security
- IoT Security

Practice

Increase mastery with hands-on tools & experiences

Packet Tracer

Gaming

Prototyping Lab

Virtual Labs

Assessments

Physical Equipment

Complementary Offerings

Additional offerings available from Partners.



- ▲ NDG Linux I
- ▲ NDG Linux II
- NDG NetLab+
- NDG CyberOps Lab



- CLA: Programming Essentials in C
- CLP: Advanced Programming in C
- CPA: Programming Essentials in C++
- CPP: Advanced Programming in C++

○ Aligns to Certification

□ Instructor Training Required

△ Self-paced

☆ ASC Alignment Required

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NetAcad Ecosystem

Since 1997



Free curriculum,
services, and
platform



Full-featured Learning
Management System
& Assessment Engine



Free
lecturer/teacher
resources – lesson
plans,
assessments, etc.



Certification and
equipment discounts



Connect to
jobs programs



Available in English,
Spanish, French,
Arabic, Portuguese,
Simplified Chinese,
Russian

TVET Initiatives in Africa

The below are a few examples of our collaboration:

- **South African Ministry of Higher Education:**
Review and rewrite of national TVET Life Orientation and Computer Studies curriculum.
Impacting **+250K** students annually
- **Moroccan OFPPT TVETs:**
2021 NetAcad Python course officially integrated within national TVET curriculum.
Impacting **27K** students annually.
- **Nigerian National Board for Technical Education (NBTE):**
IT lecturers from all NBTE institution trained in CCNA and CyberOps.
Impacting **+30K** students in phase 1 and **+300K** thereafter.
- **Ethiopian Ministry of Higher Education:**
NetAcad to be offered at selected TVET Colleges in phase 1.
Impacting **20K** students in phase 1 and **+200K** thereafter.
- **Algerian Ministry of Vocational Training:**
Review and rewrite of national TVET Computer Science curriculum.
Impacting **+300K** students annually







Fake News

All IT jobs are in the tech industry and require a Degree

Artificial Intelligence will replace human workers

IT is for Nerds, Boys, it's too hard



Job Security Top Economic Priority

100K people surveyed in 29 countries
McKinsey & Company

Source: McKinsey & Company



Real News

z

IT skills and jobs in **non-tech** industries are growing 50% faster than in the tech industry





Real News

Entry-level IT jobs are more accessible in non-tech industries, with only 0 to 2 years' experience (no degree)

Main Pathways



Programming



IT support



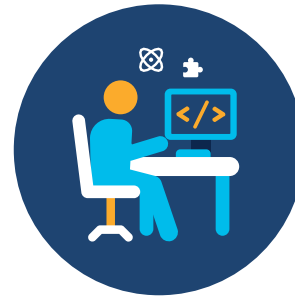
Cybersecurity



So, Yes, IT is for Nerds
And...



Students seeking job
security



People looking to reskill
or upskill



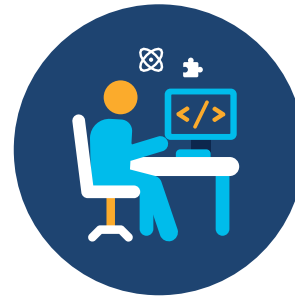
Market-relevant
education systems



So, Yes, IT is for Nerds
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Students seeking job
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People looking to reskill
or upskill



Market-relevant
education systems



The bridge to possible

