

ICT Career Paths

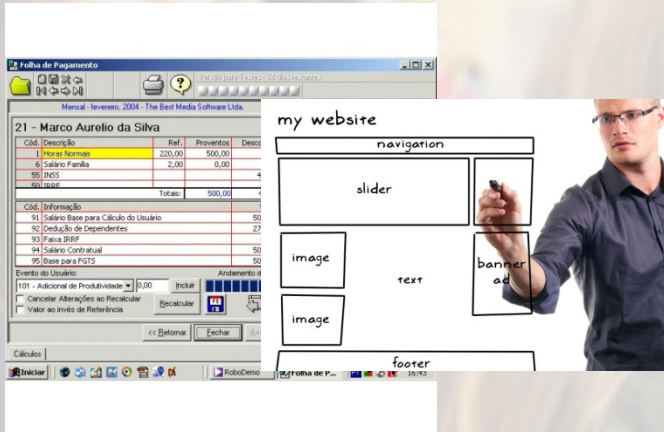
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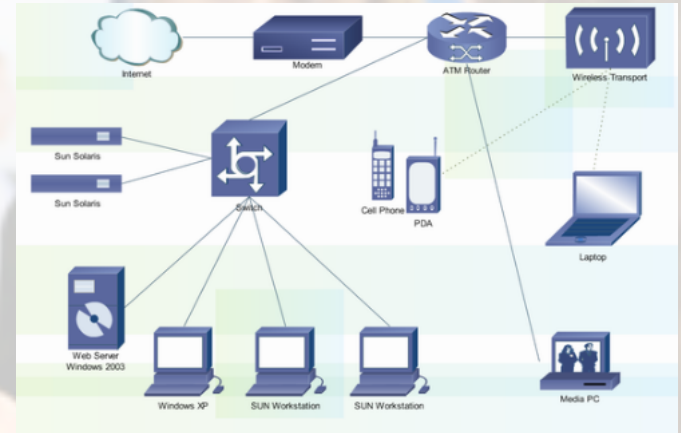
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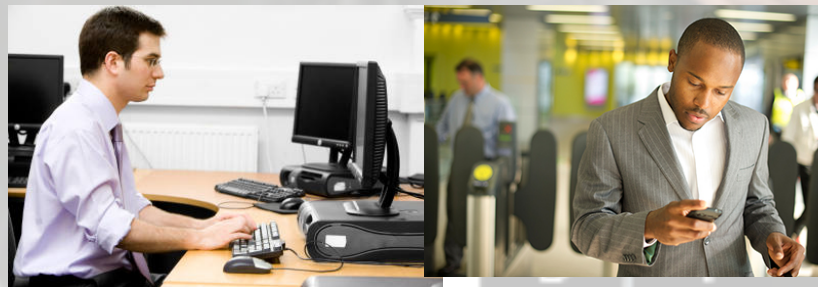
ICT – Information and Communications Technology



Software



Hardware



People

Hardware

Core Hardware

PCs, Laptops, servers, printers

Networking Equipment

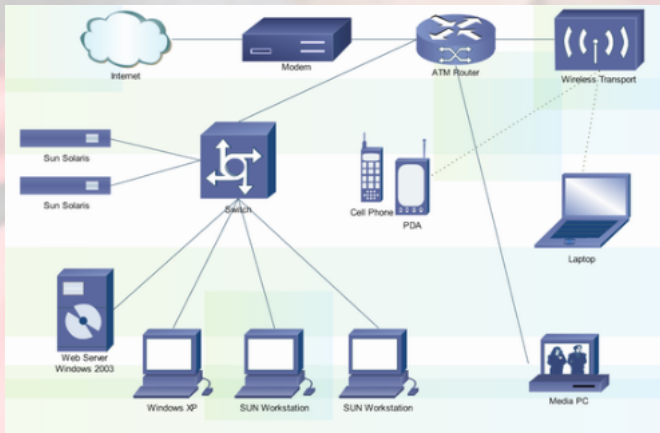
Modems, Routers, Switches

Others

Computer Gadgets like mobiles, tablets, etc
These days Internet of Things (IoT)

Operating Systems (although software considered with HW)

Pc Windows, Windows Server, Linux, NOS, Apple iOS, etc



Software

Applications Software Development

Health, Accounts, Billing, Manufacturing, Banking, etc

Mobile Development

Android, Windows, Apple

Web & Social Media Development

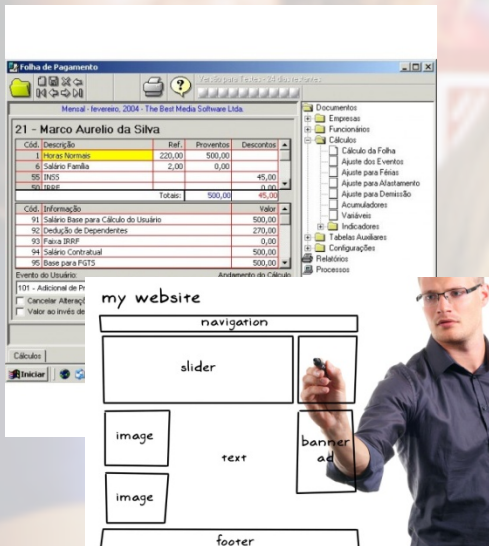
Mainly Websites and portals, social media dev

Big Data Science, Analytics & Databases

Mainly Websites and portals, social media dev

Graphics Design, Digital & ceative Media

Web Page Design, Game Design, Adverts & banner design, etc



People

Business Process Analysis

Systems Analysis & design

Requirements Definition

Project Management

Call Centre support



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Roles in the Software

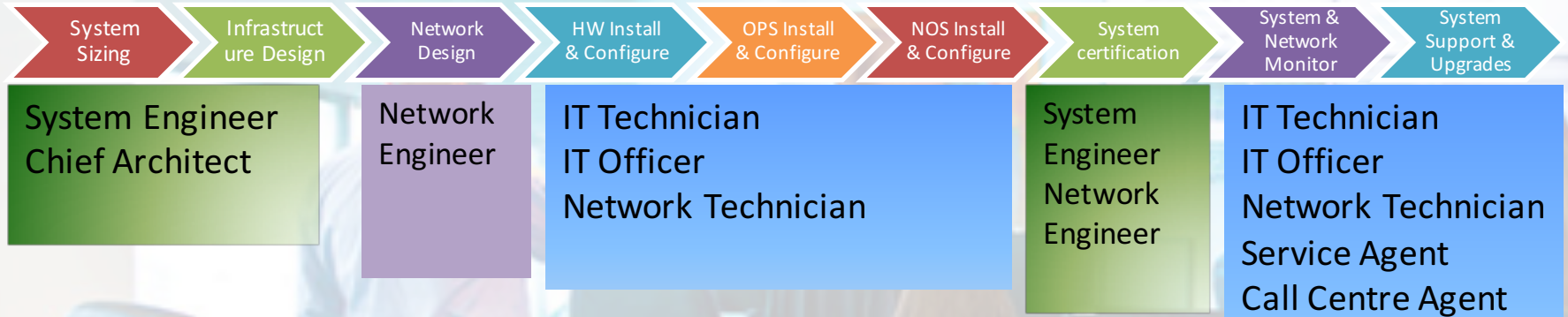
When Software is Developed



Off-the-shelf Software



Roles in Hardware & Networking



Project Manager/ICT Manager/ Software Manager/Enterprise Architect/Quality Manager/CIO/Sales Consultant
Technology Trend Researcher

Best Education for Career

- Education in ICT is of three types
 - Formal Education (secondary, post secondary, college, University);
 - Non-Vendor Specific Education (certification in expert areas);
 - Vendor Specific Education (Microsoft, Cisco, Oracle, etc)
- The Best is formal education plus certifications during the career;
- Most non-formal certifications are obtained after the formal education;
- Does not exclude a career based on certification plus experience;
- Level of formal education is based on MQF Levels 1 – 8;
- Certifications are not based on levels but on value to industry;

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4

Career Paths



Non-Vendor Specific Certifications – ITIL, CompTIA, EC Council, ISEB, LPI, ISACA, PMI, PRINCE2, ISC2, SNIA, etc

Vendor Specific Certifications - Microsoft, Cisco, Oracle, Citrix, SAP, HP, Red Hat, Vmware, Checkpoint, etc

Intro Certificate – Foundation Certificate – Diplomas – Adv. Diplomas – High Diplomas – Degree -- Masters

MQF 1

MQF 2

MQF 3

MQF 4

MQF 5

MQF 6

MQF 7

Formal Education/Certifications

ICT Qualification Path

MCAST and University

MCAST MQF 6

Bachelor of Science (Hon in Computer Systems and Networks)
Bachelor of Science (Hon) in Software Development
Bachelor of Science (Hon) in Multimedia Software Development
Bachelor of Arts (Hon) in Graphic Design

University of Malta MQF 6

Bachelor of Science (Hon) (Computer Engineering)
Bachelor of Science (Hon) (Computing Science)
Bachelor of Science in IT (Hon) (Artificial Intelligence)
Bachelor of Science in IT (Hon) (Computing and Business)
Bachelor of Science in IT (Hon) (Software Development)

MQF 4

MCAST UoM Advanced Diploma

MCAST Adv Diploma in IT (Computer Systems & Networks)
MCAST Adv Diploma in IT (End User Support)
MCAST Adv Diploma in IT (Multi Media Software Development)
MCAST Adv Diploma in IT (Software Development)
MATSEC Advanced Exams in IT and Computing

MQF 3

MCAST & UoM Diploma

MCAST Diploma in IT
SEC Exams in IT and Computing

MQF 2

MCAST & UoM Foundations

MCAST Foundation Certificate
in Computing

MQF 1

MCAST & UoM Certificates

MCAST Intro Certificate in Computing

1

2

3

4

ICT Qualification Path

Private Education

Foreign Universities & Institutions Degrees **MQF 6**

4 University of Hertfordshire
1 University of Derby
1 Institute of Commercial Management
1 ICE

5 Middlesex University
1 British Computer Society (BCS)
2 University of London

Foreign Universities & Institutions Degrees **MQF 5**

4 BTEC & EDEXEL
1 Institute of Commercial Management
1 ICE
3 Institute of Computer Education (Malta)
1 Digital Marketing Institute
5 LEAD Training Services

19 NCC
1 British Computer Society (BCS)
2 University of London

MQF 4

ECDL Advanced (Various)
Domain International Diploma in ICT
Libyan Vocation Institute Diploma in Information and Communication Technology
6 NCC

MQF 1

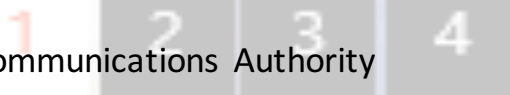
1 ETC

MQF 2

1 ETC
1 Malta Communications Authority
1 TCTC

MQF 3

ECDL Core (Various)
ETC VET Award A+ PC Technician
ICE VET PC Technician Award



Examples of ICT Certifications

Vendor-Neutral Certification Guides	Vendor-Specific Certification Guides
CompTIA Certifications & Career Paths	Apple Certifications & Career Paths
EC-Council Certifications & Career Paths	Brocade Certifications & Career Paths
ITIL Certifications & Career Paths	Check Point Certifications & Career Paths
ISACA Certifications & Career Paths	Cisco Certifications & Career Paths
(ISC)2 Certifications & Career Paths	Citrix Certifications & Career Paths
LPI Certifications & Career Paths	Cloudera Certifications & Career Paths
PMI Certifications & Career Paths	Dell Certifications & Career Paths
SANS GIAC Certifications & Career Paths	EMC Certifications & Career Paths
SAS Certifications & Career Paths	HPE Certifications & Career Paths
SNIA Certification & Career Paths	IBM Certifications & Career Paths
The Open Group Certifications & Career Paths	Juniper Certifications & Career Paths
ISEB Certifications from the BCS	Microsoft Certifications & Career Paths
	MongoDB Certifications & Career Paths
	Oracle Certifications & Career Paths
	Red Hat Certifications & Career Paths
	Salesforce Certifications & Career Paths
	SAP Certifications & Career Paths
	VMware Certifications & Career Paths