

BRIDGING THE GAP Introductory Diploma in IT



Useful websites:

http://compnetworking.about.com/od/ba

http://en.wikipedia.org/wiki/Main Page

http://www.howstuffworks.com/

Interactive Poster

sicnetworkingconcepts/

http://www.netacad.com

(Cyber Security)

Course Title	Examination Board & Web Address
Introductory Diploma in IT: IT Infrastructure Technician	OCR https://ocr.org.uk/qualifications/cambridge-technicals/information-technology/#level-3

Units/Topics Studied:

Fundamentals of IT, Global Information, Cyber Security, Computer Networks, Mobile Technology and Internet of Everything

Bridging Task

Part One:

Find out the answers to the following questions

- 1. What are the 7 layers of the OSI Model?
- 2. What are the differences between TCP and UDP?

Network Design

- 3. What are Ports?
- 4. What is an IP address and a MAC address?
- 5. Explain the 5-4-3 rule?
- 6. What is an SSID?
- 7. Would you use WEP or WPA? Explain why?
- 8. Who invented Linux?
- 9. What are the three main methods of connecting devices together in a network?
- 10. How does a router work?

Part Two:

Choose **ONE** of the following tasks to complete

Produce an A3 Size poster explaining the
similarities and differences between the OSI
Model and the TCP/IP Model.
Make you poster interactive, with questions,
answers, hidden information etc.
Legal and Ethical
Choose one recent Cyber Security issue that has
been in the media.
For your chosen topic, research in depth the
possible effects on people and society, with a
particular emphasis on the impacts these issues
can have. Areas could include stealing large
databases of passwords/personal information or
the methods used by government agencies such
as the NCA or GCHQ.
Your research should be presented as a leaflet.

The two parts will be graded Pass, Merit or Distinction. In part one we will be looking for the correct answers. In part two we will be looking for evidence of research, technical understanding and the skill of communicating ideas with others effectively. Good Luck!