Basic/Intermediate Computer Networking
Course Code – SDC0000013

DURATION, DAY, DATE AND TIME OF THE COURSE:
6 weeks starting on Wednesday 8 May 2024, 10.00 - 17.00

VENUE:
East Surrey College, Gatton Point, London Road, Redhill, RH1 2JX.

PRIOR KNOWLEDGE/SKILLS REQUIRED:
Basic IT knowledge with GCSE English and Maths

COURSE DESCRIPTION:
This course introduces the fundamentals of computer networking. Participants will explore the principles, protocols, and technologies that enable devices to communicate and share resources in a networked environment. Through a combination of lectures, hands-on exercises, and practical demonstrations, students will develop a foundational understanding of networking concepts and gain practical skills applicable to various IT environments.

UNITS/TOPICS COVERED:
- Introduction to Computer Networks
- Definition of computer networks
- Bus, Star, Ring, Mesh, Hybrid
- OSI Model
- Explanation of each layer (Physical, Data Link, Network, Transport, Session, Presentation, Application)
- IP Addressing and Subnetting
- Address resolution (ARP)
- Ethernet and LAN Technologies
- Wireless Networking
- Routing protocols (Static routing, RIP, OSPF, BGP)
- Purpose and functions of NAT
- Role and operation of DHCP
- Purpose and functions of DNS

EQUIPMENT NEEDED:
• Pens/pencils
• Notepad

WHERE CAN IT LEAD?
Basic/Intermediate Computer Networking Security

COURSE FEE: £294

If you are 19+ on 31 August 2023, the standard fee will apply unless you qualify for free tuition and this will be your first leisure course in the current academic year. Contact Client Services for advice and guidance on funding and eligibility. Please be aware that there may be additional costs for materials.

WHAT TO DO NEXT:
If you have any outstanding queries please contact our Client Services team on 01737 788444 or at clientservices@esc.ac.uk.

To apply online for this course please visit www.esc.ac.uk.

Disclaimer:
Every effort has been made to ensure that the details contained in this leaflet are up-to-date and accurate at the time of printing. However, the College reserves the right to alter or cancel courses, their content, entry requirements, fees or other details should circumstance dictate.

Should you require this leaflet in a different format please contact Client Services on 01737 788444.