Competition Overview/Brief

WorldSkills UK Higher Network Infrastructure Technician

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| About the Competition |
| This competition focuses on all the essential requirements for a successful career as a Network Technician. This competition consists of a series of tasks that include the installation, configuration, maintenance and troubleshooting of ICT networks using predominantly CISCO devices. The competition will test the knowledge and skills learned in the Cisco CCNA Network Academy Program. |

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| The Detail |
| Competitors will undertake a series of practical tasks which will demonstrate their abilities and skills in Cisco networking.  The Heats will be carried out using the latest version Cisco Packet Tracer.  The National Finals will utilise a combination of Cisco Packet Tracer and real networking kit.  The full competition brief will be provided to each competitor on the morning of the competition heat.  You can download the Past Test Pieces from a previous year’s UK Final here: [2015](https://www.dropbox.com/sh/5cohivczsw6bw3x/AAAVXaM74RcTpxZ2AKpvbYF7a?dl=0) [2014](https://www.dropbox.com/sh/i41bzoilhklrwgi/AACtQBuMOhR_U1EZu3IzgLX-a?dl=0) or [2016 Heat](https://www.dropbox.com/sh/dqc3msnu5kv8tmn/AADSZLRYetqP8XsOXeDcmDOSa?dl=0)  This Cisco Network Technician competition will be based on the learning objectives of the CCNA (Cisco Certified Network Associate) qualification.  The scope of this competition is as follows:  IP - IPv6, IPv4, Subnetting, VLSM and summarization  Router and switch configuration  IP access control lists (Both IPv4 & IPv6)  Routing Protocols  PPP and Frame Relay  NAT/ PAT & DHCP  VLAN’s and inter VLAN routing  Etherchannel, GRE Tunnelling, HSRP |

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| Entry Requirements |
| This competition is intended for those competitors with 2 years experience of this skill in education, training, employment, or who are enrolled in a programme of study or have completed the equivalent to a level 4 qualification. [SCQF equivalent level 7]  Up to 3 competitors per college/organisation may enter this competition. Colleges/organisations with more than one campus may enter up to 6 competitors – with a maximum of 3 competitors per campus.  e.g. – A multi campus college/organisation with 3 sites could enter 1 competitor from site A, 2 competitors from site B and 3 competitors from site C = 6 competitors maximum. |

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| Marking and Assessment |
| All marks are objective. An example of how marks **could** be awarded by the judges can be seen below:-   |  |  |  | | --- | --- | --- | | A | VLSM, IP addressing and Summarisation | **10%** | | B | Basic router & switch configuration & device security (passwords & ACL} and access | **15%** | | C | EIGRP, OSPF, routing and HSRP | **30%** | | D | Switching and inter vlan routing | **20%** | | E | PPP, Frame Relay, NAT and DHCP | **25%** | |  |  |  | | **Total** |  | **100%** |   Each competition test will be assessed and marked independently of the other test. The tests will be assessed and marked in accordance with the general and specific competition rules.  A panel of judges have been drawn from industry, colleges and training providers. The  judges’ decisions will be independently moderated and quality assured before being  confirmed.  NB: The top candidates achieving the highest marks in the heats will be invited to the UK  final. There is no automatic entrance to the UK final for heat winners. WorldSkills UK will inform  finalists following moderation of marks from the regional competitions.  If a competitor has a complaint on the day it is advised that this be discussed with the host,  head judge or WorldSkills UK representative. If this is not possible the grievance procedure must be used, the procedure is found in the competitions rules, which is downloadable from [worldskillsuk](https://www.worldskillsuk.org/worldskills-uk-competitions/for-competitors/competition-rules) |

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| Contact Details |
| For technical advice about the competition contact: Toby Bell  **Phone:** 01670841200 ext 329  **Email:** [toby.bell@northland.ac.uk](mailto:toby.bell@northland.ac.uk) |

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| Competition Rules |
| * Mobile phones to be switched off during competition activity * Listening to music via headphones is not permitted during competition activity * Any questions during competition activity should be addressed to the competition Judge * Competitors should not communicate with other competitors during competition activity * It is the responsibility of each competitor to arrive on time for each competition session. No additional time will be allowed if you arrive late. * Technical failure of your equipment should be reported immediately to your judge. Additional time will be allocated if the fault is beyond the control of the competitor |

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| Competition Partners |
| This competition is managed by Northumberland College in association with New College Lanarkshire |

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| Relevant Links |
| <https://www.worldskillsuk.org/worldskills-uk-competition-materials#_> |