HM Government

T-LEVELS

T Level Technical Qualification in Digital Support Services

Occupational specialism assessment (OSA)

Digital Support

Assignment 3

Assignment Brief

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NCFE

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About this assignment

Introduction

This assignment is set by NCFE and administered by your provider during a set 2-week window.

The assignment will be completed under supervised conditions.

You must complete all tasks in this assignment independently. You are required to sign a declaration of authenticity to confirm that the work is your own. This is to ensure authenticity and to prevent potential malpractice and maladministration. If any evidence was found not to be your own work, it could impact your overall grade.

Internet access is available to allow you to access developer notes and help pages, and to install, configure and update operating systems, drivers and software applications, and deploy them remotely. You are **not** permitted to use the internet for any other purpose, such as research. A copy of your browsing history must be submitted as part of your evidence for this assignment.

You have 10 hours to complete all tasks within this assignment. Each task has the following number of hours:

Task 1
6 hours (this task will be spread over 2 days).

Task 2
4 hours (this will be provided after completion of Task 1 and be completed in 1 day).

Individual tasks must be completed within the timescales stated in each task, but it is up to you how long you spend on each part of the task; therefore, be careful to manage your time appropriately.

Total marks available across all Assignment 3 tasks – 27.

Details on the marks available are provided in each task.

You should attempt to complete all of the tasks.

Read the instructions provided carefully.

Take all photographs using the digital camera supplied by your provider. Use of mobile phones is **not** permitted.

Performance outcomes (POs)

This assessment requires students to:

PO1: Apply procedures and controls to maintain the digital security of an organisation and its data

PO2: Install, configure and support software applications and operating systems

PO3: Discover, evaluate and apply reliable sources of knowledge

Scenario

Monitoring and maintaining all infrastructure, whilst documenting the process, is the key to an efficient and functional system. During this process you will analyse the recent penetration test report that has been produced on a network. This will lead to you identifying vulnerabilities, providing solutions, identifying trends and underlying problems, all of which will be documented in a continuous improvement plan.

To save time and improve efficiency, you are required to create and deploy an image remotely, which consists of an operating system and software applications.

Task 1: network analysis

Time limit

6 hours

You can use this time how you want, but Task 1 must be completed within the time limit.

[12 marks]

Student instructions

In this assignment you need to monitor, maintain, and demonstrate continuous improvement of a network. For this, you will need to complete an infrastructure status log. You have been provided with a list of equipment and a network overview diagram (Appendix 4) to help you complete your log.

You should complete all fields on the infrastructure status log including maintenance notes for the equipment. All of the information you need for this is included in Appendix 3 (workbook):

- worksheet – infrastructure status log
- worksheet – equipment list.

You must also analyse the penetration test report (Appendix 5). You should record your findings and solutions in the penetration test remediation log (worksheet in Appendix 3). You need to include how current and future vulnerabilities will be mitigated. You also need to identify trends and underlying problems so that solutions are produced faster.

You need to provide evidence, where applicable, to justify your work and any future planning; this could be details from the penetration test report, your infrastructure status log, or the network overview diagram.

The evidence you should produce is:

- completed infrastructure status log:
  - using the equipment list provided
  - showing maintenance notes for the installations
- analysis of penetration testing report:
  - penetration test remediation log
  - mitigation of vulnerabilities
  - future planning, identifying trends and documenting underlying problems.

You will have access to the following equipment:

- a computer with productivity software pre-installed
- internet access for software installation help pages.

Evidence required for submission to NCFE

The following evidence should be submitted:

- annotated screenshots showing the issues identified in the penetration test report, and maintenance notes for the installations within the infrastructure status log (worksheet in Appendix 3)
- penetration test remediation log (worksheet in Appendix 3)
- documented / planned improvements (word-processed document)
- internet browsing history.

Task 2: deploy image remotely

Time limit

4 hours

You can use this time how you want.

[15 marks]

Instructions for students

As part of your continuous improvement of the network created, it has been logged that new software applications are needed for computers in an office. To save time and increase efficiency, this will be completed remotely.

For this you must create an image which includes an operating system, office software applications, drivers, rules, active directory permissions and a deployment task sequence. You will deploy this remotely. A test plan and test log (worksheet in Appendix 3) will need to be completed for this task. This is required as the image may be deployed on different hardware platforms (for example, platforms with different graphics cards and configurations) and it is necessary to quality assure the device to ensure the deployed image is acting as expected.

Screenshots and notes will need to be made throughout the creation, deployment and testing of the image. This can be performed either virtually or physically.

You are required to demonstrate creation of an image and deployment of that image remotely for one virtual or physical machine including:

- create an image:
  - operating system:
    - include all the latest updates
    - include all required drivers
  - software applications:
    - productivity software (only word processor and spreadsheet software)
    - project management software
    - email client
- active directory joined
- deployment task sequence
- upload image to image distribution system and make it available (for example, Windows Deployment Service (WDS))
- deploy image
- create a test plan, test image and complete log.

You will have access to the following equipment:

- machine running WDS or similar
- internet access for software installation help pages
- one end-user device or virtual machine
- access to servers, network devices, network-based services
- operating system and software for basic image deployment
- a digital camera.

Evidence required for submission to NCFE

The following evidence should be submitted:

- annotated screenshots or photographs and documented notes showing creation and deployment of image
- test plan (worksheet 4 in Appendix 3)
- test log (worksheet 5 in Appendix 3)
- internet browsing history.

Document information

NCFE is authorised by the Department for Education to develop and deliver this T Level Technical Qualification.