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| Student Name |  | | Student Number | |  |
| Unit Code/s & Name/s | ICTNWK539 Design and implement integrated server solutions  ICTNWK540 Design, build and test network servers | | | | |
| Cluster Name  *If applicable* | Server | | | | |
| Assessment Type | Assignment  Project  Case Study  Portfolio  Third Party Report (Workplace)  Third Party Report (Peer)  Other | | | | |
| Assessment Name | Design an integrated Server solution | | Assessment Task No. | | 2 of 3 |
| Assessment Due Date | Week 6 | | Date Submitted | | / / |
| **Assessor Feedback:** | | | | | |
| **Attempt 1** | Satisfactory | Unsatisfactory | | Date | / / |
| Assessor Name |  | | Assessor Signature | |  |
| **Student provided with feedback and reassessment arrangements**  *(check box when completed)* | | | Date scheduled for reassessment | | / / |
| **Attempt 2** | Satisfactory | Unsatisfactory | | Date | / / |
| Assessor Name |  | | Assessor Signature | |  |
| Note to Assessor: Please record below any reasonable adjustment that has occurred during this assessment e.g. written assessment given orally. | | | | | |
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| Assessment Criteria / Benchmarks  ***The evidence submitted demonstrates that the student has satisfactorily:*** | Attempt 1 | | Attempt 2 | |
| **Date**  \_\_/\_\_/\_\_ | | **Date**  \_\_/\_\_/\_\_ | |
| Y | N | Y | N |
| Project Proposal |  |  |  |  |
| 1. **Gap Analysis** |  |  |  |  |
| 1. Showed the current IT infrastructure state |  |  |  |  |
| 1. Produced a gap analysis of the current IT infrastructure state |  |  |  |  |
| 1. Researched and determined the solutions for each of the issues identified with the target being the desired state as required for the client |  |  |  |  |
| 1. **Server installation plan**: Produced 2 design options addressing all the following areas**.** |  |  |  |  |
| 1. Identified the number of servers with specifications and workstations that are required |  |  |  |  |
| 1. Identified the server operating systems that will be implemented and how they will be integrated |  |  |  |  |
| 1. Identified the server roles to be configure on each server |  |  |  |  |
| 1. Identified installation media and the process that will be used for installation of the OS |  |  |  |  |
| 1. Identified the integration, application incompatibility issues and how the issues will be resolved |  |  |  |  |
| 1. **Network Functionalities:** the following have been addressed |  |  |  |  |
| 1. DHCP – IP schema – has shown in scope and out of scope plan |  |  |  |  |
| 1. DNS |  |  |  |  |
| 1. Active Directory Domain Services – including users, OUs, groups, and GPOs |  |  |  |  |
| 1. Update services - WSUS |  |  |  |  |
| 1. Description of how an OS will be deployed across a network |  |  |  |  |
| 1. Communications – email (example MS Exchange Server, Zimbra), web and FTP (example Apache) |  |  |  |  |
| 1. Print management |  |  |  |  |
| 1. Group policies |  |  |  |  |
| 1. Proxy server |  |  |  |  |
| 1. NTP server |  |  |  |  |
| 1. **Network Security:**  the following have been addressed |  |  |  |  |
| 1. Server integration and authentication |  |  |  |  |
| 1. Identified the authentication model to be applied to the network for the integration of multiple server OS platforms that meet the organisation’s network requirements |  |  |  |  |
| 1. Described how the authentication models between the different server OS integration including AD and Kerberos protocol |  |  |  |  |
| 1. Explained how high availability can be achieved with redundancy and replication can be applied to the authentication model |  |  |  |  |
| 1. File Sharing |  |  |  |  |
| 1. Described the file storage, management and sharing (between different OS s),   Identified file and folder protection – included a permissions plan |  |  |  |  |
| 1. Proposed Folder structure drawn |  |  |  |  |
| 1. Data migration and backup requirements |  |  |  |  |
| 1. Identified the storage requirements and how data will be migrated to the new IT infrastructure |  |  |  |  |
| 1. Considered any continuous confidentiality and integrity during the network installation process |  |  |  |  |
| 1. Identified the backup process of data that needs to be implemented |  |  |  |  |
| 1. Firewall security and Virus Protection |  |  |  |  |
| 1. Identified Firewall options for network security |  |  |  |  |
| 1. Described how to protect from viruses |  |  |  |  |
| 1. Drawn a network prototype that meet industry standards for the information that is incorporated |  |  |  |  |
| 1. **Developed a test plan using the test plan template and inserted into document. Test plan to include:** |  |  |  |  |
| 1. Connectivity test |  |  |  |  |
| 1. Performance test |  |  |  |  |
| 1. Availability test |  |  |  |  |
| 1. **Plan Approval** – Included the following |  |  |  |  |
| 1. A clear statement of review and approval |  |  |  |  |
| 1. A signature area that is signed and dated |  |  |  |  |
| The following documents submitted  ICTNWK539\_540\_AT2\_Part1\_yourname.docx  ICTNWK539\_540\_Test\_Plan\_yourname.docx  ICTNWK539\_540\_Project\_approval\_yourname.docx |  |  |  |  |
| 1. **Task Scheduling** |  |  |  |  |
| Student used a software program that is industry recognised, such as Microsoft Excel or Project |  |  |  |  |
| 1. Project shown in stages that are recognisable |  |  |  |  |
| 1. Each stage shows multiple tasks |  |  |  |  |
| 1. Student assigned sufficient time, including network downtimes, and resources (labour, material, and cost) to each task |  |  |  |  |
| 1. Schedule has been reviewed and approved by the client (teacher) |  |  |  |  |
| 1. Produced a budget based on labour, material cost) |  |  |  |  |
| **ICTNWK539\_540\_AT2\_Part2\_yourname submitted** |  |  |  |  |