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| Assignment title | 9.1=3 – Develop a plan to implement a computing technology development in an organisation | | | |
| Assessor | Stephen Robinson | | | |
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| Date issued. | 04/03/2021 | | | |
| Final deadline |  | | | |
| Duration (approx.) |  | | | |
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| Qualification suite covered. | BTEC L3 National Extended Diploma in Computing | | | |
| Units covered. | Unit 9: The Impact of Computing | | | |
| Learning aims covered | c: Develop a plan to implement a computing technology development in an organisation. | | | |
| P5: Produce information from a variety of stakeholders to explain the potential impact of a suggested computing technology development implementation on an identified organisation. | | M3: Analyse the scope, boundaries and constraints of a computing technology development implementation plan for an identified organisation. | | |
| P6: Develop a plan to implement a technology development within an identified organisation and to manage the associated risks. | | D3: Use feedback to evaluate the plan to implement a computing technology development in an identified organisation and the suggested improvements. | | |
| Scenario | Bury College is looking at the possibility that they may need to provide their services to students fully remotely. It is probable that the new system would require all students to have an appropriate device to access their learning and that the systems in college would need to be adapted to provide a consistent, quality experience. You have been asked to develop a plan to implement such a change. | | | |
| Task 1 | **Task 1 (P5)**  **Create a “Bury College Remote Working” report: -**  **Identify** the stakeholders in the system.  **Create** a set of questions that need answers related to this new system and the changes/impact it would have on them.   * **Use your questionnaires and collaborate on your findings.** * **Summarise your findings.**   **Evidence:**  9.3 – **Bury College Remote Working” report** | | | |
| Task 2 | **Task 2 (M3)**  **In your report**  **Identify** The specific areas/staff of the college that the new system would affect and any areas that would not be affected.  **Identify** any constraints that need considering (time, cost, legal, infrastructure, outside agencies etc)  **The report must be fit for purpose:**   * It must look professional and have a suitable theme/house style, format and content. * Suitable headings, subheadings, diagrams, and images should be used and consistently formatted. * Standard English must be used, and the document should be free from spelling and grammar mistakes. * Technical vocabulary to support well-structured and considered responses that clearly connect chains of reasoning.   **Evidence:**  9.3 – “**Bury College Remote Working” report** | | | |
| Task 3 | **Task 3 (P6)**  **Describe** the risks (what could go wrong?) and how these could be handled or reduced.  **Create** A timeline to implement the new system. Consider the order that different things need to be done in (training, new equipment, upgrades etc)  **The report must be fit for purpose:**   * It must look professional and have a suitable theme/house style, format and content. * Suitable headings, subheadings, diagrams, and images should be used and consistently formatted. * Standard English must be used, and the document should be free from spelling and grammar mistakes.   **Areas to Cover:**  **Consider** security, technical support, infrastructure, changing patterns of use, changing roles of staff, leadership, legal etc)  **Evidence:**  9.3 – “**Bury College Remote Working” report** | | | |
| Task 4 | Task 4 (D3)  **Create** an addendum to your report. This should include references to two of your peers who have reviewed your report and any updates that they have suggested. | | | |
| Evidence you must produce for this task. | Produce a report containing evidence required for each of the tasks above.  The assignment feedback sheet and the document are within the same file and should be submitted together to Turn-It-In. | | | |
| Criteria covered by this task: | | | | |
| To achieve the criteria, you must show that you are able to: | | | Unit | Criterion reference |
| Produce information from a variety of stakeholders to explain the potential impact of a suggested computing technology development implementation on an identified organisation. | | | 9 | P5 |
| Develop a plan to implement a technology development within an identified organisation and to manage the associated risks. | | | P6 |
| Analyse the scope, boundaries and constraints of a computing technology development implementation plan for an identified organisation. | | | M3 |
| Use feedback to evaluate the plan to implement a computing technology development in an identified organisation and the suggested improvements. | | | D3 |

**Task 1 (P5)**

**Create a “Bury College Remote Working” report: -**

**Identify** the stakeholders in the system.

**Create** a set of questions that need answers related to this new system and the changes/impact it would have on them.

The stakeholders in this system are: Senior managers who will provide funding for the changes in the system such as paying for the use of a streaming and file sharing platform to host online lessons and to send work files over the cloud.

Teachers who will need to re-evaluate their teaching methods and ensure that they send the work resources to a shared cloud storage platform for students to access and work on, they will also need to set up a place to receive classwork and send it back to students after marking. Teachers have also been able to host their lessons from the comfort of their own home which allows them to have a more flexible timetable and they can manage their time better than they could in college where they would have other responsibilities than hosting lessons and marking classwork.

Students will be affected the most as they will not have to come into the college every day, this will mostly affect the students who live far away from the premises as they will not need to make use of public transport or vehicles which will allow them to save time, they will also not need to prepare for college early and can wake up just shortly before lessons start. This extra time can be used to study, complete classwork or to rest.

Students will also have to overcome the problems that come with distanced learning as they will not be able to meet up with their peers and socialise, this will be a huge change as they are used to being in close proximity with their classmates and teacher. They will also be inconvenienced as online lessons being taught through a voice or video call with their teacher are not as thorough as lessons in person, the feedback and help given is also not as useful as it would be in person which makes it harder for them to complete their work.

IT support staff have needed to distribute laptops to some students who do not have the required devices to complete their classwork at their home.

Other staff such as canteen workers, janitors and security guards have either been laid off their jobs or granted furlough as there is no point in them maintaining an empty college campus without any students or teachers there.

Parents / carers may be inconvenienced as they will have to leave their children at home by themselves whilst they are at work, this. Some parents will benefit from this as they will not have to pay for their children to use public transport on a regular basis and will save money or will not have to waste their time driving them to the campus when they could be doing more productive things.

The Head of college will have to make decisions about how lessons will work for all staff and students.

Software suppliers will have to maintain their software and sell more licences as more people will use their software. The increased traffic will need more staff to maintain the servers as they could go down or be targeted by hackers.

Exam boards will be affected as they may not need to set exams for students and will not need to mark them.

The government will be affected as they need to consider the mental state of the populace and the effects that social impacts of remote learning will have on them. They will also need to deal with the population being upset due to the new rules being enforced.

Ofsted will be affected as they cannot do their jobs in testing the teaching standards and ensuring that students are being taught properly if they are at home.

Questionnaire:

[1] Do you prefer working from home to working on the college campus?

College Tutor1 response – I have less travel but more preparation to do so my time is not much different. Space away from my children is difficult after and before their school times.

College Tutor2 response – I live near college, so I hardly travel. I save no time but more preparation to do so my time working is much more. My spouse looks after my young children at home so getting away from the noise is difficult. A work provided creche or similar support would help me.

[2] Is it easier or harder to teach students online?

College Tutor Response – It is currently more difficult as gestures and body language are not visible and students don’t normally display their work on screen. If it was policy that they did share, then things would be easier.

[3] Would it be better if lessons went completely remote?

College Tutor Response – It is currently less effective to deliver lessons remotely.

[4] Have you come across any problems with remote working?

College Tutor Response – Yes, Internet problems, hardware problems, Students not having full access, VLE resources sometimes not being accessible.

[5] What social impacts has remote working had?

College Quality Response – Different impacts are too many to list. A few students have made better progress but many more have been working at a reduced level and making less progress. Parents have expressed worry. The recent working meant that rail, tram and buses were quieter and there was discomfort at home for some. Not having buildings full of people has reduced costs in some cases and some staff related to maintenance and services have not been needed for the time being.

[6] How would you improve the current remote working circumstances?

College Quality Response – Better and clearer policies about acceptable interaction and progress. Better provision of infrastructure and systems. Better

[7] What benefits does remote working have?

College Tutor Response - More time at home

[8] What downsides does remote working have?

College Tutor Response - More difficult to deliver materials. More difficult to assess student progress in sessions. Less opportunity to collaborate with colleagues.

[9] How could funding be spent better to improve remote working and online lessons?

- Already covered above

[10] Do you think that student's education has been affected positively or negatively due to remote working? Explain why.

-Negatively – reasons above

Summary: remote working is not very good for students as the lessons are less effective than if they were in person. It is also not very good for teachers as the lessons are less effective and harder to teach as well as requiring a lot more preparation in advance, it is also harder to assess student’s work.

The benefits to remote working are that there will be less travel time for both students and teachers and that there is more time for students to do work. But there is a problem for parents/carers as they will have to take care of their children in college times as they are home instead of at the college campus.

There can be problems with remote workings such as internet being inaccessible, hardware errors or not being in possession of a device that can be used to work from and software failures.

It could be improved if it had a clearer policy to work by which would make it as effective as regular lessons and work in person. It would improve the progress in lessons and interactions between students and teachers as well as with students among their peers.

The social impacts that remote working has had on students have worried many parents as their children have been cooped up at home all day which has a negative effect on their mental health, this is magnified by the lack of social interactions with their peers that they have due to lockdown. Many students have also been doing less work or not completing work at all due to a lack of motivation.

As many people are working and learning from home there is less people making use of public transport and that there may be discomfort at home due to rising tensions as families will not be used to being together at all times and parents will not be able to take care of their children whilst working.

There is a lack of grounds people and maintenance staff in many organisations due to there not being any need for them since the buildings are not staffed. This could result in many people being fired as there is no need to employ them.

**Task 3 (P6)**

**Describe** the risks (what could go wrong?) and how these could be handled or reduced.

**Create** A timeline to implement the new system. Consider the order that different things need to be done in (training, new equipment, upgrades etc)

There are many risks that could occur with remote learning/working which can be handled and reduced.

One of these risks is the need for devices (hardware) that can be used to work from remotely from within the confines of your own home. Without these devices you will not have access to the college network to work or learn from which will allow you access lessons or the shared college drive. This can be handled by the IT staff of college lending students' laptops to do their work from or arranging times for them to come in and make use of the college computers to work from, this would require a special access pass that would allow them to enter college at different times. Another way that this could be done is by using a public computer or laptop in an internet café or a library to work from.

Another risk is the need for a stable internet connection to work remotely as it is needed to access the college network and do work online.

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**Task 2 (M3)**

**In your report**

**Identify** The specific areas/staff of the college that the new system would affect and any areas that would not be affected.

**Identify** any constraints that need considering (time, cost, legal, infrastructure, outside agencies etc)

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Task 4 (D3)

**Create** an addendum to your report. This should include references to two of your peers who have reviewed your report and any updates that they have suggested.

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