

Programme: HE Cert. Professional Skills for Digital Skills

Module: Skills Development in the Workplace

Module code: ACMA 4013

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INTRODUCTION

The professional skills for construction, digital skills, and engineering skills modules are the focus of this reflection project.



This task aims to promote critical thinking, introspection, and the application of theoretical ideas to practical situations.

Task 1

Reflection on “How Innovation Changes the World



The power of innovation is incredible since it promotes the advancement of society and has the capacity to revolutionise many sectors and establishments (Criado-Perez, et al, 2022).



The field of construction technology is one in which innovation has had a significant influence. The use of BIM has completely altered the processes involved in the building industry (Guillén-Gámez, et al, 2022).



Using BIM, we can find problems and work them out before the building ever begins, which saves both time and money. In order to better allow stakeholders to experience and evaluate the project in a virtual environment, visualisation and simulation tools have been improved through the use of virtual reality (VR) and augmented reality (AR).

Task 1

Reflection

on “How

Innovation

Changes

the World



Green building techniques, such as recycling, renewable energy, and efficient use of available resources, are becoming more commonplace in the construction sector (Núñez-Canal, et al, 2022).



Eco-friendly insulating materials, solar panels, and cost-effective lighting systems are just a few examples of cutting-edge building supplies that have contributed to a marked decrease in the environmental effect of the built environment.



These innovations boost environmental sustainability, save operating costs over time, and make buildings more pleasant to live in.

Task 1

Reflection on “How Innovation Changes the World

My educational institution has also benefited greatly from innovations in the field. The delivery and accessibility of education have been revolutionised by the widespread adoption of digital technology and online learning platforms.



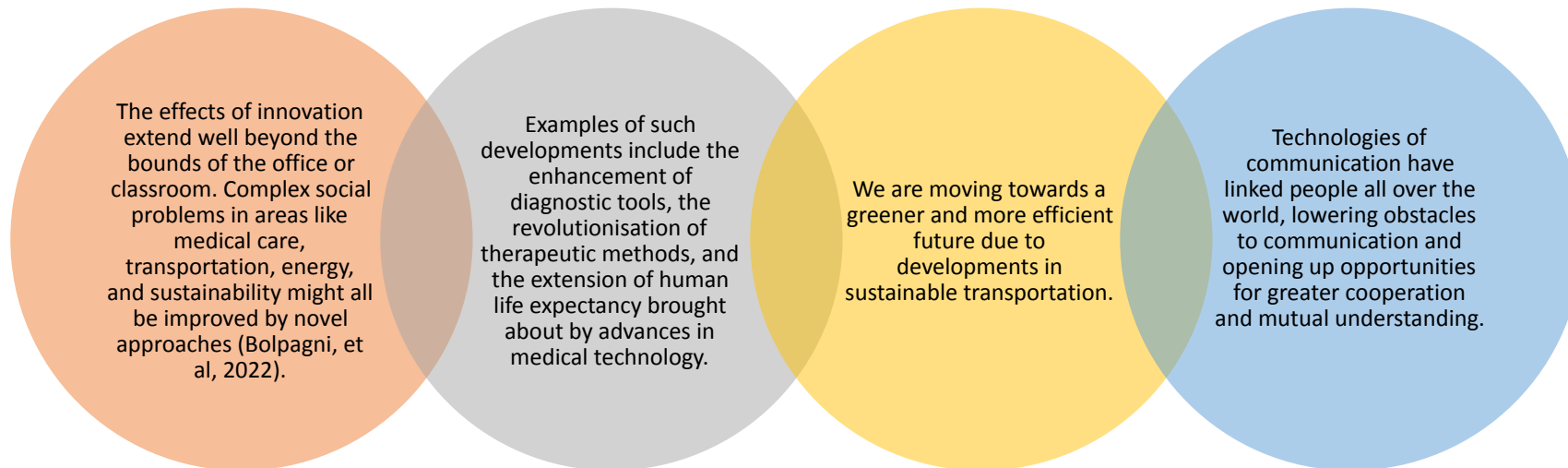
Students from different classes and schools may work on the same assignment at the same time and give each other comments and edits because of online collaboration tools (Drydakis, 2022).



In addition, teachers may learn a lot about their student's strengths and areas where they need help using learning analytics and digital assessment technologies.

Task 1

Reflection on “How Innovation Changes the World”



Task 2

Reflection on “Making a Change”

The importance of “Making a Change” in my professional and personal life cannot be overstated (Xu, et al, 2022). Working in the construction sector, I have seen personally how adapting to new circumstances is often essential for keeping up with the latest demands of a project while still maintaining quality and satisfying clients.

The adoption of lean construction concepts is an example of successful change implementation at my company. During a lean construction project, time and resources are not wasted on unnecessary activities. Integrated execution of projects and lean scheduling are two examples of collaborative practises that may be adopted to boost productivity and cut costs (Harris, et al, 2021).

Task 2

Reflection on “Making a Change”

When my business made the decision to adopt lean construction methods, it necessitated a radical departure from our standard operating procedure. It was crucial to overcome opposition to change and establish a culture of constant development (Sadeek, 2022).

We helped promote this shift by giving in-depth instruction on lean practises, encouraging open lines of communication and cooperation among team members, and establishing a safe space for trying new things and making mistakes.

For me, making a shift has always been about bettering myself and expanding my horizons. I have learned that the best way to grow as a person and in my career is to be open to new experiences and challenges.

This has required taking on more duties, actively seeking out educational opportunities, and aggressively obtaining input to help highlight areas for growth.

Task 2

Reflection on “Making a Change”



There are always difficulties while making a shift. It frequently entails dealing with unknowns, overcoming opposition from co-workers or stakeholders, and handling unexpected interruptions.



However, it is essential to look at transitions not as challenges but as chances for development.



This is a chance to push boundaries, think creatively, and make progress (García de Soto, et al, 2022).

Task 2

Reflection on “Making a Change”

My company uses change management techniques to ease employees into new roles and reduce resistance. This involves developing feedback channels to address issues and gather ideas during the change process, performing impact assessments to understand the consequences of change, and offering training and tools to equip staff with the essential skills (Wang, et al, 2021).



Employees and other stakeholders are more likely to embrace change when they feel like they had a hand in shaping it.

Task 2

Reflection on “Making a Change”



After giving it some thought, I have come to the conclusion that change is a chance for growth and development rather than an insignificant inconvenience. To adapt, create, and progress, change is essential (Cabero-Almenara, et al, 2021).



We may overcome obstacles, grasp opportunities, and succeed in our personal and professional lives by encouraging a mindset of constant growth and adaptation.

Task 3



Reflection on “Collaboration Not Competition”

- ☐ The need for teamwork and cooperation in completing building projects makes the theme of “Collaboration Not Competition” highly relevant to my workplace.
- ☐ Many people from different backgrounds work together on construction projects, including engineers, designers, suppliers, contractors and subcontractors (Rozak, et al, 2021).
- ☐ For a project to succeed and produce excellent results, it is crucial that all involved parties work together effectively.

Task 3

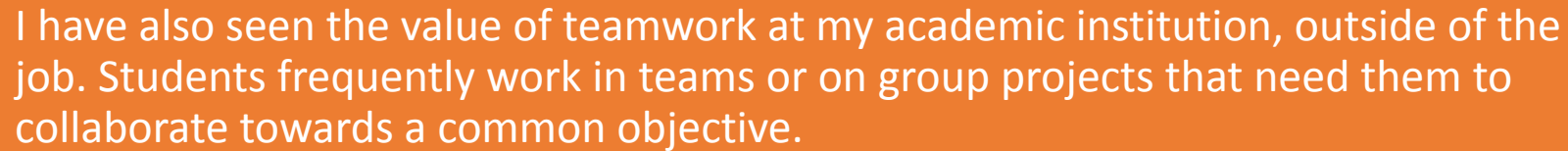
Reflection on “Collaboration Not Competition”

- ❑ The ability to work together facilitated the sharing of knowledge, the capitalisation of individual abilities, and the joint attack on difficult problems (Criado-Perez, et al, 2022).
- ❑ The team took a collaborative strategy that helped them meet their deadlines, cut down on unnecessary steps, and complete the project to everyone’s satisfaction. All members of the team are kept up-to-date on the project’s status, any issues that have arisen, and the shared goals by holding regular formal and informal meetings.
- ❑ These meetings offer a venue for discussing ideas, getting feedback, and encouraging a sense of group ownership over the project (Harris, et al, 2021).

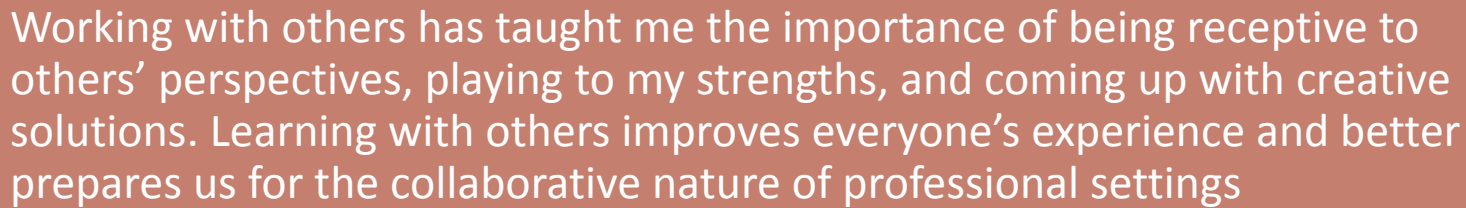
Task 3

Reflection on “Collaboration Not Competition”

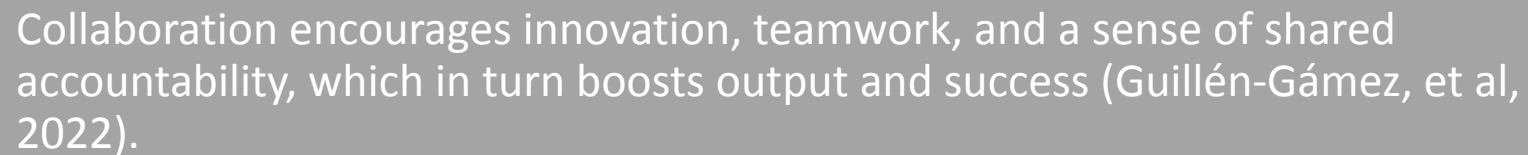
I have also seen the value of teamwork at my academic institution, outside of the job. Students frequently work in teams or on group projects that need them to collaborate towards a common objective.



Working with others has taught me the importance of being receptive to others' perspectives, playing to my strengths, and coming up with creative solutions. Learning with others improves everyone's experience and better prepares us for the collaborative nature of professional settings



Collaboration encourages innovation, teamwork, and a sense of shared accountability, which in turn boosts output and success (Guillén-Gámez, et al, 2022).



Task 3

Reflection on “Collaboration Not Competition”

01

By adopting a cooperative frame of mind, we may take advantage of different points of view, cultivate a spirit of cooperation, and make sure that everyone's input is taken seriously.

02

It is important to remember, though, that working together does not mean putting aside healthy rivalry

03

When people and groups are motivated by friendly rivalry, they push themselves to improve and accomplish greater things (Weber-Lewerenz, 2021).

Task 3

Reflection on “Collaboration Not Competition”

- ☐ As I have mentioned, teamwork is essential in both my company and my educational institution.
 - ☐ Collaboration, rather than competition, allows us to pool the knowledge and abilities of many people in order to encourage creativity and progress.
 - ☐ Increased output and achievement can be the result of improved communication, cooperation, and shared responsibility fostered by collaborative efforts (Cabero-Almenara, et al, 2021).
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Task 4

Reflection on “Personal Evaluation”

- ☐ Self-evaluation is essential for taking measures of one’s strengths and weaknesses and establishing directions for development (Drydakis, 2022).
- ☐ This is an important issue for me personally, professionally, and academically since it promotes introspection and lifelong education. My company uses performance reviews and meetings to provide constructive criticism to each employee.
- ☐ These reviews allow me to take an assessment of my performance, get input from my superiors and colleagues, and determine where I may improve as an employee.

Task 4

Reflection on “Personal Evaluation”

- ☐ In a similar vein, I find it helpful to regularly assess my own performance. It requires me to think carefully about my choices and how they have affected me.
- ☐ Self-evaluation on a regular basis has helped me monitor my growth over time, discover my areas of weakness, and map out a strategy for bringing about the changes I want to see.
- ☐ Making educated decisions about both my professional and personal lives is made possible by my personal evaluation, which helps me understand my values, interests, and goals.
- ☐ It has aided me in recognising avenues for professional development, dealing with personal challenges, and bettering my overall well-being. At my institution, the personal evaluation plays a crucial role in the learning process.

Task 4

Reflection on “Personal Evaluation”



- ☐ Personal evaluation includes not only identifying flaws but also recognising strengths and accomplishments (Bolpagni, et al, 2022).
- ☐ It has helped me become more self-aware and confident, which has allowed me to better use my abilities in many areas of my life.
- ☐ Recognising my talents allows me to better capitalise on them, take on tasks that are within my skill set, and make constructive contributions in my professional, personal, and academic life.
- ☐ Regular self-reflection empowers me to influence my own development as an individual and in my career. It is a useful tool for me in terms of goal-setting, keeping score, and adjusting my approach as needed.
- ☐ Evaluating myself helps me deal with challenges, see where I can grow, and take advantage of lessons I have learned the hard way. It has helped me adopt a learning attitude, where I am always interested in expanding my horizons and taking on new challenges.

Conclusion

- ❑ Conclusively, this self-reflective exercise has been a great opportunity to learn more about and develop the construction industry, and digital, and engineering expertise. I have learned more about the value and potential of innovation, embracing change, working with others, and self-evaluation in the business world, in our private lives, and in our formal schooling.
- ❑ The research on innovation emphasised its revolutionary potential, illuminating how BIM and green building practises have altered the building sector forever.
- ❑ Adapting to new problems, driving improvements, and fostering growth all require a willingness to make changes, which was noted as a vital and continuing activity in the workplace and beyond.

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