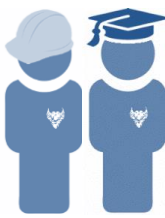


Design, Engineer, Construct! Level 2:

Unit 3: Delivering a Sustainable Construction Project



3.1 The candidate will be able to carry out a project

Unit	Incomplete (U)	Secure (C)	Exceptional (A)	Comments:
3.1.1				
3.1.2				
3.1.3				
3.1.4				
3.1.5				

Name: Jack Littlewood

Date:

Deadline for Submission:



Unit 3: Delivering a Sustainable Construction Project

3.1 The candidate will be able to carry out a project

3.1.1 coordinate a design proposal to ensure mistakes are avoided



1. Add extracts from your Weekly Reports to this PP that highlight how you avoided any mistakes:

April 20th, 2016

4/20/2016 0 Comments

This week I have been working on the car park, furniture and interior.

What problems did I encounter? I encountered a revit city problem.

How and when did I find them? I found them when trying to add a model to revit

How did I ensure any problems were communicated? I managed to correct mistakes and sort the problem.

What actions did I take? I spent time trying to fix it and researching it on the internet.

Who did I communicate this to? (Specialist roles), Myself.

What discussions did I have? Was the discussion useful? Did I take any advice? I didn't have any discussions.

What impact will my actions have on my project being delivered to the brief, on time within budget? Yes.

June 08th, 2016

6/8/2016 0 Comments

This week I have been working on more of my Revit model trying to figure out the lengths and measurements of the furniture of my establishment

What problems did I encounter? I didn't really have any problems this week.

How and when did I find them? None.

How did I ensure any problems were communicated? None.

What actions did I take? None.

Who did I communicate this to? (Specialist roles), No-one.

What discussions did I have? Was the discussion useful? Did I take any advice? I didn't have any discussions.

What impact will my actions have on my project being delivered to the brief, on time within budget? Yes.

Why is it important to consider potential problems and put plans in place before they occur?

It's important as they can have a strong effect on the construction of the building, potentially damaging the design and long term process.



Unit 3: Delivering a Sustainable Construction Project

3.1 The candidate will be able to carry out a project

3.1.2 identify potential problems at an early stage and take appropriate action



1. Add your Weekly Reports to this PP. Be sure to highlight/underline any specific problems you had and how you communicated these.

Lifts and Elevators!

4/6/2016 0 Comments

Today I have almost completed my stairs and elevators, I just need to get some tips online to insert and place my elevator, other than that my stairs are complete.

What problems did I encounter? I am having issues with the elevator.

How and when did I find them? I found them this week during lesson

How did I ensure any problems were communicated? I am going online for tips to fix them.

What actions did I take? The internet.

Who did I communicate this to? (Specialist roles), Myself.

What discussions did I have? Was the discussion useful? Did I take any advice? I have had no discussions but seen some online regarding them

What impact will my actions have on my project being delivered to the brief, on time within budget? It will bring a short time reduction but nothing.

Materials

3/9/2016 0 Comments

This week I have been on revit trying to produce some work for my building which is not to scale. I have also been on powerpoint doing work for materials, I have been researching materials I could use on my building and just materials in general such as zinc roofing and wood.

Now lets go with the new blog layout.

What problems did I encounter? I encountered a homework problem since my computer was very slow and couldn't load anything which set me back in work.

How and when did I find them? I found them when I was at home.

How did I ensure any problems were communicated? Well, I'm going to use a different computer at home which will work so then I complete my work in my own time and get the school work done at school.

What actions did I take? I will use a different computer to get my work done.

Who did I communicate this to? (Specialist roles), I communicated it to the teacher and I will complete work after school.

What discussions did I have? Was the discussion useful? Did I take any advice? I have had discussions with the teacher to complete work after school and I didn't get any advice but I know what I am doing.

What impact will my actions have on my project being delivered to the brief, on time within budget? It will slightly set me back but nothing too damaging to my work time.

Why is it important to clearly communicate any problems with you Project Team?

So the project team can evaluate the problem and eliminate it from the planning phase before it becomes a big issue, if you also don't communicate they cannot know of any existing problems and cannot reverse them,



Unit 3: Delivering a Sustainable Construction Project

3.1 The candidate will be able to carry out a project

3.1.3 identify needs that require specialists from outside the team



1. Go to the BuroHappold website and look at their specialist consultants. In the box below discuss the who could be used for your project and summarise their roles/ specialisms.

Façade Engineering

As stated on the website “Specialist design in structural glass”, their role for my building would be to design and stabilise the glass façade and to also do my windows for my building, they are good since I have a lot of glass surrounding my building meaning they are a great choice.

Lighting Design

Lighting designers are people who design the interior and exterior lighting of my infrastructure. This would be good for my building as I have a lot of lighting since the building is quite large and they’re specialists so it would improve the lighting around the building.

Inclusive Design

The inclusive design team helps to create a wide design that is suitable for all types of people which include disabled, elderly and children, their role for my project would be to ensure that my building is fit to allow all types of people to use the facilities.

Sustainability

The sustainability team will benefit my project as they will help build great systems which ensure my building is sustainable such as wind turbines, solar panels and SUDS, this would not only help my building be sustainable but it’ll help the generation of it and the costs.

Transport and mobility

This team could be useful to my development as my project is located in a tight space so transport and mobility team could help me wrap up some of the issues that could revolve around spacing issues,

Waste Management

The waste management team help provide cleaners systems and sustainable designs which provide a smart system of waste disposal meaning I’ll have a cleaner and safer system in place which shows my building is help to build a more cleaner environment.

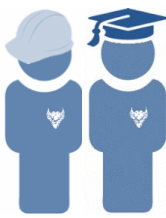
Security and technology

The security and technology team will help my building as they help build a more safer and risk free environment.

Why is it important to consult specialists beyond the knowledge of your team?

Well, it’s in their name, they are specialists meaning they have a better knowledge or understanding of their position meaning I’ll be able to get specialist advice which is accurate and great.





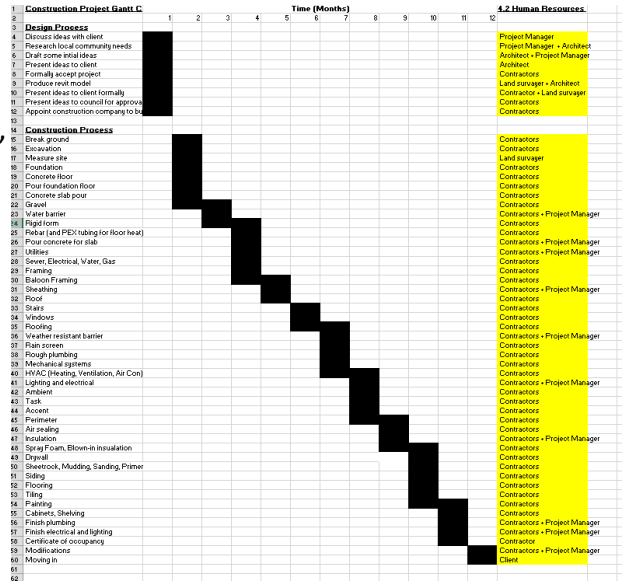
Unit 3: Delivering a Sustainable Construction Project

3.1 The candidate will be able to carry out a project

3.1.5 ensure the project is developed on time and to budget

1. Use your weekly report, time plan and Schedule of Accommodation to discuss how you ensured the project is developed on time and to budget:

My project was developed behind schedule unfortunately as my upper level is incomplete due to measurement corrections meant my project had to run behind schedule, apart from that I kept it in budget unless I wanted to add an extension which I mentioned in my weekly blog. As we can see from the image to the right here of the time plan, if this was actually mine then there would be a major set back to some aspects of this as my special measurements were quite a major piece of my project as it could affect the overall cost of the project.

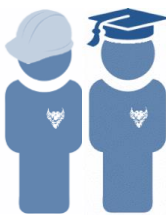


Building Description/Type	SPONS RATES £/m ²		Project Rate £/m ²	Location Factor %	Adjusted Project Rate £/m ²	m ² Floor area	£ Cost	Notes
	Basic	Premium						
Gym	1800	2100	2100	-12	1848	450	831600	
Café	1360	1650	1360	-12	1196.8	300	359040	
Reception	990	1250	1250	-12	1100	200	220000	
Staff room	1775	2250	1775	-12	1562	100	156200	
Basketball court (indoor)	2500	2750	2750	-12	2420	500	1210000	
Football court (indoor)	2500	2750	2500	-12	2200	500	1100000	
Kitchen	2050	2600	2050	-12	1804	100	180400	
Changing rooms	1025	1275	1025	-12	902	100	90200	
Toilets	920	1050	920	-12	809.6	70	56672	
Total:							4204112	

Were there any issues that caused a delay or possible over spend on the project?

There was a major issue with the spacing of the rooms as they were incorrect which meant I had to make big changes to the interior which in reality would've meant more materials would've been used meaning more money so to answer the question, yes there was a delay and a little overspend of the project.





Unit 3: Delivering a Sustainable Construction Project

3.1 The candidate will be able to carry out a project

3.1.4 monitor progress in consultation with peers

1. Add you Weekly Reports to this PP. Be sure to highlight/ underline the times you consulted peers or the teacher when making decisions:

April 20th, 2016

4/20/2016 0 Comments

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How did I ensure any problems were communicated? I managed to correct mistakes and sort the problem.

What actions did I take? I spent time trying to fix it and researching it on the internet.

Who did I communicate this to? (Specialist roles), **Myself and the teacher.**

What discussions did I have? Was the discussion useful? Did I take any advice? **I didn't have any discussions, just a little advice.**

What impact will my actions have on my project being delivered to the brief, on time within budget? Yes.

Materials

3/9/2016 0 Comments

This week I have been on revit trying to produce some work for my building which is not to scale. I have also been on powerpoint doing work for materials, I have been researching materials I could use on my building and just materials in general such as zinc roofing and wood.

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What actions did I take? I will use a different computer to get my work done.

Who did I communicate this to? (Specialist roles), **I communicated it to the teacher and I will complete work after school.**

What discussions did I have? Was the discussion useful? Did I take any advice? **I have had discussions with the teacher to complete work after school and I didn't get any advice but I know what I am doing.**

What impact will my actions have on my project being delivered to the brief, on time within budget? It will slightly set me back but nothing too damaging to my work time.

Why is it important to consult your peers before making desicions?

So your peers can be up to date on your decisions and to also allow them to know that these changes are taking place and if they have any issues.

