****

**Plumbing & Heating Summer Project**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Welcome to Plumbing & Heating at City College Southampton.

This is a series of short tasks to help you gain a little knowledge about plumbing and heating and the building services engineering (BSE) industry before you start with us. Please bring this with you on your first day.

**Task 1**

Watch the video on the BSE/Plumbing industry and record the main points about what the industry can offer.

<https://youtu.be/-ybZYik8bhY>

**Task 2**

Write a list of the types of work each trade area within the BSE/Plumbing industry carries out as their normal ‘day to day’ work?

* Plumbing

* Heating and Ventilation
* Refrigeration
* Electrical

**Task 3**

Within the BSE and Plumbing industry it requires an understanding of Health and Safety to make sure you are safe whilst you are at work.

Answer each of the questions below.

1. Who is the H.S.E?
2. Which Law covers the safety of personal at work?
3. Who is responsible for Health and Safety on site?
4. What is the highest cause of accidents within the construction industry?
5. State what does COSHH stand for?
6. State what does RIDDOR stand for?
7. Describe what a risk assessment is?
8. Describe what a method statement is?
9. Draw the main types of safety signs including their name and colours?
10. Explain the terms – access and egress?
11. List the main types of fire extinguishers and the fire they can be used on?
12. When lifting you must do so correctly, state the main points when lifting an item from the floor?
13. State the maximum weight you should carry?
14. If there is a hole in the ground, List the safety features that must be in place?
15. When working with a flammable gas carrying out soldering, List the safety measures that should be in place?

**Task 4**

**Personal Protective Equipment (PPE) requirements**

In the grid below, name the items of PPE that are required to be worn on a construction site and write down what they protect.

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**Task 5**

**Site inductions and the CSCS card**

When attending a construction site for the first time a site induction is normally carried out by the main contractor alongside you may need to prove evidence of your skills.

Research and answer the questions below to show knowledge about attending a site for the first time

1. Explain why a site induction is required?
2. State what is covered in a site induction?
3. Explain the difference between a site induction and a tool box talk?
4. Describe why a CSCS card is used within the construction industry?
5. List the main types of CSCS cards and how they relate to those working on a construction site?
6. Describe what you must do in the application a CSCS card?

**Task 6**

**Hunt the hazard**

When on site there is a requirement that you are safe by recognising any hazards or the risk of injury from the area surrounding you.

Complete the Hunt the Hazard game by clicking on the link to find all of the hazards that can be found on a construction site.

<https://www.google.co.uk/url?sa=i&source=imgres&cd=&ved=2ahUKEwjUs6r_9JzpAhVFxIUKHd-ECbYQjB16BAgBEAM&url=https%3A%2F%2Fwww.ivorgoodsite.org.uk%2Fwp-content%2Fgames%2Fhunt_the_hazard%2F&psig=AOvVaw1YFgoQ4A8TE5Qo4t9gqzAq&ust=1588774646965886>

**Task 7**

**Name the Tools**

Complete the name of each of the industry tools and add a description as to what they would be used for.

|  |  |
| --- | --- |
| Tool | Description |
|  |  |
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**Task 8**

**Work experience**

One of the requirements of completing a study programme is to undertake work experience within the BSE/Plumbing industry and you are to consider the how you are going to go about organising that work.

* **Write a report**

Produce a report stating what opportunities in the industry interests you the most, what this career option involves and what it is about it that appeals to you.

* **List the companies**

Identify 3 companies that are within commuting distance of your home that you believe may be suitable for work experience and include a brief detail of who they are and what they do, remembering to include their name, their address, a contact phone number and an email address.

* **Write a letter**

Write a formal letter to one of the companies you have identified but do not send it until you have been enrolled at college and you know the requirements of your timetable.

**We look forward to welcoming you to City College in September and exploring what you have found out through this project - which you should complete and bring with you to your first lesson.**