

# Induction Tasks

## **Task One: Management Processes** *Assessment of basic building knowledge*

It takes many different elements to form a building. Each element has a task to perform, a purpose. An element may have more than one purpose; for example, a roof is to keep the rain out but it also insulates against the cold.

For this activity you are to consider your home and all the elements that make it a habitable dwelling.

Use the table below to write down each element, its construction and the purpose it has within the building as a whole. You must also suggest an alternative element that can do the same job. Finally, you must say the how the element performs as it does.

<b>Building element</b>	<b>Construction material</b>	<b>Purpose</b>	<b>Alternative element</b>	<b>How does it do it?</b>
<i>External walls</i>  <i>EXAMPLE</i>	<i>Cavity wall, bare brick/air cavity/brick/plaster</i>	<i>Weatherproof the dwelling, strength of structure, heat insulation, security</i>	<i>straw bales, thermal insulation instead of air cavity and a better design of the composite wall</i>	<i>Durability, porosity on the outside, load transfer mechanisms, thermal resistance, a solid barrier</i>
Internal partition wall				
External door				
Foundations				
Windows				
Roof				
Ground floor				
Upper suspended floor				
Ceiling				
Internal doors				

## **Task Two: Traditional versus Modern methods** *Assessment of research skills*

For this task you are asked to complete a research activity and create a presentation on your findings.

You are required to research 3 different traditional methods of construction and 3 modern methods of construction.

You are expected to:

- Describe the characteristics of each method
- Analyse the advantages and disadvantages of each method
- Describe an application of each method
- Evaluate the effectiveness of each method

## **Task Three: Sustainable Practices.** *Assessment of essay skills*

For this task you are expected to complete an essay, building on the research from the previous task. Task two asked you to explain three modern methods of construction.

Describe in turn how each of these methods contributes to sustainable building practices.

You are expected to research the topic and answer the question to the best of your ability.

You will be assessed on the following areas:

- Essay structure
- Use of Language
- Application of knowledge