ARCHITECTURE DESIGN

Sustainability Summit

1 FORMAL CPD POINT

The below answer sheet is for your own self-assessment. Please keep your completed questionnaires and answers on file for your record. Sustainability Summit will send you a Refuel certificate once your questionnaire has been submitted.

INNOVATION AND THE LATEST IN SUSTAINABLE BUILDING SOLUTIONS

1. How does using sustainable building materials help with improving health & safety for builders as well as the occupants?
   The use of natural, green building materials (GBMs) together with non-toxic, natural, and organic compounds has the potential to reduce negative impacts on human health and improve overall safety by removing such things as VOC's (volatile organic compounds) and a range of carcinogens.

2. What are some green trends embedded into the design and culture and why are they important?

- Ventilation systems designed for efficient heating and cooling
- Energy-efficient lighting and appliances (e.g., ENERGY STAR products)
- Water-saving plumbing fixtures
- Landscaping with native vegetation and planned to maximize passive solar energy
- Minimal harm to the natural habitat
- Alternative renewable energy power sources such as solar power or wind power
- Non-synthetic, non-toxic materials used inside and out
- Locally-obtained woods and stone, eliminating long-haul transportation
- Responsibly-harvested woods
- Adaptive reuse of older buildings

3. Describe three ways that waste minimization can be achieved on a build

- Reduce your use of new materials:
- Reuse existing buildings and materials:
- Recycle resources that are left over or have reached the end of their useful life

4. What are some of the latest new innovations in terms of green materials?
   Biodegradable Materials

- 3D Printing
- Solar roof tiles
- Recycled timber
- Living buildings
- Building Information Modelling (BIM) ...
- Green Insulation
- Cool Roofs

Competency Codes: Design: PC 10, PC 12, PC 28, PC 31