



## **LOHAS – CONTINUAL PROFESSIONAL DEVELOPMENT**

**TOPIC** The possibilities – Designing with Ceramics

### **OVERVIEW**

The importance and benefits of Ceramic facade material selection in history and modern architecture. Key considerations and possibilities when designing facade with ceramic materials and often with adjoining other materials. In overall, the architects will be able to assess the appropriate materials selection for sustainable ceramic facade architecture.

### **LEARNING OUTCOMES**

1. Discuss History and importance of Ceramic materials in architecture.
2. Understanding environment impact on sustainability performance of Ceramic facade architecture.
3. Address ceramic facade selection in modern architecture.
4. Discuss design possibilities and flexibilities of ceramic facade materials.
5. Identifying key differences of using Brick, Brick tile facade and other Ceramic façade
6. Finding out adoptability of adjoining other types of materials and ceramic facade.
7. Design a facade solution and discuss the benefits of various installation approach.
8. Key points of maintenance of ceramic facade.
9. Project Initiation and Conceptual Design PC24, PC25, PC28. Detail Design and Construction Documentation PC39, PC45.

### **FORMAL ASSESSMENT QUESTIONS**

1. Ceramic materials are made of combination of EARTH, WATER, FIRE AND AIR.
  - a. YES
  - b. NO
2. When did industrial evolution of ceramic materials begin?
  - a. 1400s
  - b. 700 bc,
  - c. 18000 bc
3. Name a field other than building and construction which use ceramics today.
4. What is a suggested way to use brick in a high-rise or difficult-to-access site?
5. What are some alternative formats of brick which can be used in façade design?
6. Can you use only a traditional brick format to achieve Hit and Miss installation?  
If not, please address what are the options/formats.
7. Name 3 benefits of using a ceramic material in façade design.
8. Can brick be used on a sloped roofing structure? What solution could be used?
9. Can Recycled brick be installed in other than a traditional brick form of installation?
10. Does a ceramic façade require weatherproof maintenance?