

Survey of Raw Materials Course Outline

This course is an introduction to the myriads of raw materials used in ceramic and refractory products currently being utilized in various demanding applications. It addresses the various ranges of types of raw materials from clays to high performance aggregates in similar chemistry ranges. Each raw material will be discussed in detail from the raw material properties to final properties in the ceramic/refractory products. Participants will be introduced to the key physical/chemical properties of raw materials and their projected effects on final properties.

Who will benefit?

Engineers, managers, contractors, furnace operators and technicians who are involved in manufacturing, marketing, research and development, product application and consumption of ceramic and refractory materials will find this course beneficial. A high level of technical or engineering background is not essential to take this course, although technical professionals will find the subject matter informative and useful.

<u>Lecture Number</u>	<u>Topics / Activities During Class</u>
Lecture 1	Alumina Based Raw Materials
Lecture 2	Alumina Based Raw Materials
Lecture 3	Silica/Alumino-Silica Based Raw Materials
Lecture 4	Alumino-Silica Based Raw Materials
Lecture 5	Aggregates – Alumina and Silica Based
Lecture 6	Aggregates – Various
Lecture 7	Clays and Other Finely Divided Materials
Lecture 8	Raw Materials used in Corrosive/Aggressive Environments.