



## Properties of Refractories: Course Outline

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***Learn the significant properties of refractories, both theoretically and experimentally***

*This course addresses most of the significant properties of refractories, both theoretically and experimentally. The lectures will emphasize microstructural-property relationships. The participants will also gain a knowledge of common refractory testing techniques. The individual sessions are titled in the accompanying outline of the daily topics.*

<u>Lecture Number</u>	<u>Topics / Activities During Class</u>
Lecture 1	Melting
Lecture 2	Heat Capacity
Lecture 3	Thermal Conductivity
Lecture 4	Thermal Conductivity
Lecture 5	Thermal Expansion
Lecture 6	Thermal Expansion
Lecture 7	Elasticity
Lecture 8	Elasticity
Lecture 9	Strength
Lecture 10	Strength
Lecture 11	Fracture Toughness
Lecture 12	Creep
Lecture 13	Creep
Lecture 14	Thermal Shock
Lecture 15	Thermal Shock
Lecture 16	Corrosion
Lecture 17	Corrosion