

Introduction to Thermal Spray Coatings: Science, Engineering, and Applications: Course Outline

Gain thorough and holistic knowledge of the evolution of the thermal spray process

Participants will also gain insights on the fundamentals of the different thermal spray processes and in the process, enhance their ability to solve complex thermal spray issues in a systematic and practical manner. In addition, the course will expose them to the emerging markets to which the technology can be applied, thus challenging the attendees to explore potential business opportunities in manufacturing industries. The course is customized for technologists and engineers who are keen to enhance their knowledge and skills in the thermal spray field.

This course:

- *Provides a thorough grounding and understanding of thermal spray processes.*
- *Depicts the complex thermal spray scientific concepts in terms of simple physical models.*
- *Integrates theoretical knowledge to practical engineering applications and commonly accepted thermal spray practices.*

Chapter Number	Topics / Activities During Class
Chapter 1	Introduction to thermal spray
Chapter 2	Introduction and history of thermal spray and the individual processes
Chapter 3	Feedstock
Chapters 4 & 5	Design for thermal spray processes
Chapter 6	Thermal spray trouble shooting
Chapters 8 & 9	Testing and Characterization