

The Aerospace Corporation

Parts, Materials, and Processes (PMP)

This course is a survey of the various parts, materials, and processes as applied to space missions – how they are specified, how they are implemented, and what happens when they go wrong. Examples of the good, bad, and ugly are presented. It includes lessons learned and tours of the analysis labs.

Topics Include

- Space environment demands on PMP
- PMP requirements flowdown
- Passive electronic devices
- Active electronic devices
- Advanced electronic packaging concepts
- Connectors and cabling
- Structural elements (metals, polymers, composites)
- Mechanisms and tribology
- Non-destructive analysis
- Destructive physical analysis
- Manufacturing flow and processes

Who Should Attend

- All engineers and managers who specify and/or make use of parts, materials, and processes

Expected Outcomes

- Deep awareness and understanding of the significance of Parts, Materials, and Processes (PMP) in the space environment
- Insight into the methods, means, and resources for specifying and applying PMP
- Insight into the roles and responsibilities in applying PMP and an understanding of how PMP supports customer needs, processes, documents, milestones, and the acquisition life cycle
- Deep awareness of the key issues in applying PMP

Course Length

Two days

Prerequisite

None

Instructors

The instructor team includes senior members of Aerospace's technical staff.

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