

### 3D-PMI, MBD, ASME Y14.41 & ISO 16792 Advanced Applications of Solid Modeling Course Outline

- Digital Product Definition and Solid Modeling
- Shortening the Design and Documentation Development Cycles
- The ASME Y14.41 and ISO 16792 Standards
- Engineering Deliverables in the 21st Century
  - Drawing as Design Deliverable
  - Model and Drawing as Design Deliverable
  - Annotated Model Data Set as Design Deliverable
- Effects on Industry
- Effects on the Design, Manufacturing, Inspection, and Assembly Processes
- International Standardization Efforts
- Challenges of Implementation – Today and Tomorrow
- Solid Models, Data Sets, and Techniques and Guidelines
- Axonometric (Isometric, etc.) Views in Engineering Documentation
- Annotation Techniques and Guidelines
  - Annotating Axonometric Drawing Views
  - Annotating Solid Models
- Dimensioning and Tolerancing and GD&T Techniques and Guidelines
  - New Tools & Methods (Extensive)
- Using Annotated Solid Models in the Workplace
  - Parts
  - Assemblies
- Moving Your Company and It's Product Documentation Processes Forward
- Downstream Processes – Sharing and Using 3D Data Across the Enterprise
- Archival and Retention of Data
- Conclusion

