



## BASICS OF OPTICAL MEASUREMENT

**TOPIC SUMMARY:** Optical metrology is the science of technology concerning measurement with light. This non-contact measurement method is a critical piece of advanced manufacturing enabling fast, accurate, and repeatable measurements for process improvement and final inspection. With this technology, it is possible to create digital assemblies and digital twins. After taking this class the participants will be able to: understand different types of optical measurement tools and their applications, understand data outputs, and describe benefits of digital twins and assemblies.

### COURSE LEARNING OBJECTIVES:

- Understand the types of optical measurement tools, their applications, data output types, and post-processing techniques
- Understand the basics of 3D inspection techniques and uses of measurement tools for inspection
- Describe key features and benefits of digital assemblies and digital twins
- Apply basic data capture techniques using optical measurement systems and tools
- Describe system calibration process and importance
- Describe basics of the reverse engineering process

### PRICING:

**Individual:** \$300 per person

**Group Discount:** 10% for 10+ attendees

**Contracted option:** \$4,000 for up to 15 attendees

**DELIVERY:** In-person at AMIIC

**DURATION:** 8-hour; lunch is included

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