

# THE ESSENTIALS OF BIOMEDICAL TESTING

Online Training Course

The eLearning *The Essentials of Biomedical Testing Course* is an online based course that provides an introduction to the world of biomedical testing. The course is broken down into six sections. There is a mix between informational talking points as well as demonstrations across the videos to better help communicate important information. The course includes self-check quizzes and a certificate of completion will be awarded after successful completion of the course.

## Objectives

After completing this course, the participant will become familiar with the basics of biomedical testing. They will get exposure as it relates to specimens, testing types, test standards, test results and regulatory considerations.

## Course Outline

### Section 1: Introduction (*Time: 4 minutes 26 seconds*)

- Course Overview
- What are Medical Devices?
- The “Bio” Market
- Applications

### Section 2: Specimen Considerations (*Time: 6 minutes 41 seconds*)

- Samples versus Specimens
- Types of Specimens
- Specimen Preparation
- Testing Environments

### Section 3: Test Types (*Time: 12 minutes 31 seconds*)

- Tension
- Compression
- Bend
- Peel/Tear/Friction
- Simple Cyclic and Hysteresis
- Stress relaxation and creep
- Fatigue
- Torsion
- Biaxial

#### Section 4: Standard Compliance *(Time: 6 minutes 53 seconds)*

- Standards committees
- Test Standards
- Examples of test standards

#### Section 5: Test Results *(Time: 4 minutes 26 seconds)*

- Results versus calculations
- Statistical Analysis
- Six Sigma
- Statistical Tools
- Gauge R & R

#### Section 6: Regulatory Considerations *(Time: 5 minutes 23 seconds)*

- IQ, OQ, and PQ
- Audits
- FDA 21CFR Part 11
- Product Approvals

## Who Should Attend

- Lab Managers and operators in the Biomedical industry
- Test Method developers who want a brush up on terminology

*\*\*Our eLearning courses are intended for “individual” users. The course will be available for a single viewing completion within 90 days of your purchase date. For group rates, please contact Instron Training.*