

## *Available Courses from TTi*

- 101 Understanding Technical Documentation
- 102 Review of Technical Mathematics
- 103 Introduction to Electrical/Electronic Circuits
- 104 Electronics for Non-Electronic Engineers
- 105 Understanding Digital Electronics
- 106 Electrical Engineering Review
- 108 Introduction to Mechanical and Structural Theory
- 110 Thesis Presentation and Review for Specialist Certificate
- 116 Fundamentals of Vibration for Test Applications
- 117 Fundamentals of Vibration for Design Applications
- 118 Vibration Analysis and Monitoring for Rotating Equipment
- 119 Product Noise Control
- 130 Metrology Concepts
- 131 Dimensional Calibration Procedures
- 132 Measurement Uncertainty
- 133 Thermodynamic Calibration Procedures
- 134 Calibration Laboratory Operations
- 135 Calibration of Electrical Power Instruments
- 136 Electrical Instrumentation Calibration Procedures
- 137 Mass Measurement Techniques
- 139 Understanding ISO 17025
- 142 Mechanical Shock Techniques
- 157 Fixture Design for Vibration and Shock Testing
- 161 Grounding and Shielding for EMI/EMC/ESD
- 162 Test Procedures for EMI/EMC/ESD
- 163 Instrumentation for Test and Measurement
- 164 Instrumentation for Electrical Test and Measurement
- 166 Applied Measurements
- 171 Telemetry Systems
- 172 Fiber Optic Systems
- 173 Global Positioning Systems (GPS)
- 174 Fiber Optics and Optical Calibration
- 194 Vibration and Shock Test Control Techniques
- 195 Modal Analysis for Structural Validation
- 196 Digital Data Acquisition
- 197 Digital Signal Processing, Data Acquisition and Analysis
- 199 DSP: Digital Signal Processing
- 210 Vacuum Technology and Testing Procedures
- 211 Acoustic Technology and Testing Procedures
- 212 Thermal Technology and Testing Procedures
- 213 Pressure Technology and Testing Procedures
- 215 Facility Climate Control
- 230 Climatic Test Techniques
- 240 Accelerated Testing: ESS, HALT and HASS
- 310 Mechanical Design for Product Reliability
- 311 Improving Product Quality
- 312 Mechanical Stress Analysis
- 320 Corrosion Control Techniques
- 321 Overview of Corrosion Control
- 324 Corrosion Prevention Acquisition Compliance
- 420 Introduction to Systems Engineering
- 421 Principles of Project/Systems Engineering
- 425 Environmental Testing Procedures
- 435 Engineering Statistics
- 436 Project Scheduling
- 437 Lean 6-Sigma Without the Overhead
- 450 Environmental Test Specifications
- 451 Understanding MIL-STD-810G

## *Available Courses from TTI, cont.*

- 454 Comparison of MIL-STD-810G, ADS-71-SP and RTCA DO-160F for Military Aviation
- 471 Cooling Techniques for Electronics Design
- 472 Introduction to Printed Circuit Board Design and Fabrication
- 473 PCB Design—Mechanical, Structural and Thermal Considerations and Layout
- 474 PCB Design—Electrical Considerations and Layout
- 475 PCB Manufacturing
- 476 PCB Assembly and Testing including Quality Assurance
- 477 PCB Production including QA and Screening
- 533 Introduction to Mechanical Engineering Drawing and CAD
- 534 Introduction to Geometric Dimensioning and Tolerancing to ASME Y14.5 - 2009
- 535 Geometric Dimensioning and Tolerancing to ASME Y14.5 - 2009
- 536 Intermediate/Advanced Geometric Dimensioning and Tolerancing
- 537 GD&T: Tolerance Stacks
- 620-1 Electrical Safety Hazards in the Workplace, Part 1 (Courses 621, 622, 624, 631)
- 620-2 Electrical Safety Hazards in the Workplace, Part 2 (Courses 623, 626, 627)
- 620-3 Electrical Safety Hazards in the Workplace, Part 3 (Courses 628, 629, 630)
- 621 Introduction to Electrical Safety Program
- 622 Electrical and Non-Electrical Hazards
- 623 Highlights of the National Electrical Code [NEC, NFPA-70]
- 624 Understanding and Developing Electrical Safety Procedures
- 625 National Electrical Code [NEC, NFPA-70]
- 626 NFPA 70E Electrical Safety Requirements
- 627 Arc Flash Hazard Analysis
- 628 Electrical Safety for Utilities
- 629 Mechanical, Pressure, Steam and Liquid Flow Safety Procedures
- 630 Safety for Equipment Operators
- 631 Safety Lockout and Tagout Procedures
- 641 Quality Assurance (QA) for Nuclear Applications
- 642 Quality Control (QC) for Nuclear Applications
- 643 Commercial Nuclear Safety Procedures
- 644 Medical, Research and Storage Nuclear Safety Procedures
- 651 Understanding Piping & Instrumentation Diagrams (P&ID)
- 652 Layout and Design of Piping Systems
- 653 Pipe Support Design
- 654 Pipeline Inspection, Maintenance, Repair and Integrity
- 655 Cathodic Protection and Grounding Techniques
- 656 Electrical Cable Support Design
- 657 Power Plant Instrumentation
- 701 Required Safety Activities for Managing a Facility
- 702 Improving Warehouse Performance
- 703 Managing and Improving Facility Maintenance
- 704 Managing Inventory and “Just in Time” Delivery
- 820 Theory and Practical Application of Pump Technology
- 825 Theory and Practical Application of Valve Technology
- 901 Introduction to En-route Care Testing and Evaluation Requirements
- 902 Human Factors—Vibration, Night Vision, Noise Suppression, Safety
- 903 Vibration and Climatic Testing Techniques: Effects of Thermal, Cooling, Dust, Fungus etc.
- 904 EMI, EMC and ESD Test Procedures
- 905 Calibration, Uncertainty, Configuration Control for Medical Applications
- 906 Understanding ISO 17025 for Medical Applications
- 907 Understanding MIL-STD-461 and -810/Quality Assurance, Quality Control
- 908 Understanding and Applying Joint En-route Care Equipment Testing and Certification (JECETC) Requirement

