



*Training Course:
Advanced Equipment Troubleshooting, Testing &
Adjusting with Electronic Technician (ET)*

*1 - 5 November 2026
Cairo (Egypt)*

Training Course: Advanced Equipment Troubleshooting, Testing & Adjusting with Electronic Technician (ET)

Training Course code: SC236621 From: 1 - 5 November 2026 Venue: Cairo (Egypt) - Training Course Fees: 4100 € Euro

Introduction

The **Advanced Equipment Troubleshooting, Testing & Adjusting with Electronic Technician ET** training program, designed by **Global Horizon Training Center**, provides maintenance and technical personnel with a structured approach to diagnosing equipment faults, conducting testing and adjustment procedures, and effectively navigating Electronic Technician ET diagnostic software.

The program focuses on developing systematic troubleshooting capabilities by combining equipment operating principles, electronic diagnostic information, fault-code interpretation, parameter monitoring, testing procedures, and adjustment techniques. Participants will learn how to use ET functions and diagnostic data to identify abnormalities, determine probable causes, and support efficient maintenance decisions.

Training Objectives

By the end of this program, participants will be able to:

- Apply systematic troubleshooting methodologies to equipment faults.
- Understand the interaction between mechanical, electrical, and electronic control systems.
- Navigate Electronic Technician ET software efficiently.
- Identify and interpret diagnostic and event codes.
- Monitor equipment parameters and operating conditions.
- Analyze sensor, actuator, and electronic control information.
- Perform structured testing and adjustment procedures.
- Differentiate between symptoms, faults, and root causes.
- Use diagnostic information to support maintenance decisions.
- Verify equipment condition following troubleshooting and adjustment.
- Reduce unnecessary component replacement and equipment downtime.
- Apply best practices for documenting troubleshooting activities.

Course Methodology

The program uses a technical and application-oriented learning approach combining:

- Instructor-led technical presentations
- Equipment troubleshooting scenarios
- Diagnostic logic and fault-analysis exercises
- ET software navigation demonstrations
- Diagnostic and event-code interpretation
- Parameter and status-data analysis
- Testing and adjustment examples
- Technical discussions and case studies
- Troubleshooting decision-making exercises

Organizational Impact

Successful implementation of the knowledge gained from this program can help organizations:

- Improve equipment troubleshooting efficiency.
- Reduce diagnostic time and equipment downtime.
- Improve maintenance personnel's diagnostic capabilities.
- Reduce unnecessary replacement of serviceable components.
- Improve the accuracy of fault identification.
- Standardize troubleshooting and testing procedures.
- Improve utilization of electronic diagnostic information.
- Strengthen preventive and corrective maintenance practices.
- Improve equipment reliability and availability.
- Support more effective maintenance planning and decision-making.

Target Audience

This program is suitable for:

- Mechanical Maintenance Technicians

- Heavy Equipment Technicians
- Equipment Maintenance Engineers
- Electrical and Electronic Technicians
- Field Service Technicians
- Maintenance Supervisors
- Diagnostic Technicians
- Workshop Technicians
- Service Engineers
- Equipment Inspectors
- Technical Support Personnel

Outlines

Day 1 - Fundamentals of Equipment Troubleshooting

Systematic Troubleshooting and Diagnostic Principles

- Principles of effective equipment troubleshooting
- Understanding equipment systems and subsystems
- Mechanical, electrical, and electronic fault relationships
- Symptoms versus actual root causes
- Structured troubleshooting methodology
- Gathering equipment operating information
- Understanding technical specifications and service information
- Visual inspection and preliminary diagnostic checks
- Establishing normal versus abnormal operating conditions
- Developing a logical troubleshooting sequence
- Common troubleshooting mistakes and how to avoid them
- Maintenance safety considerations during diagnostic activities

Day 2 - Electronic Technician ET Program & Navigation

Using ET as a Diagnostic Platform

- Introduction to Electronic Technician ET
- ET system architecture and diagnostic functions
- Communication between ET and electronic control modules
- Understanding equipment electronic control systems
- ET interface overview
- Navigating menus, screens, and diagnostic functions
- Identifying connected electronic control modules
- Accessing equipment and system information
- Viewing system status and configuration information
- Understanding diagnostic codes
- Understanding event codes
- Active versus logged faults
- Viewing and interpreting operating parameters
- Using ET information within a structured troubleshooting process

Day 3 - Electronic Diagnostics & Parameter Analysis

Interpreting Equipment Diagnostic Information

- Understanding electronic control module information
- Sensor and actuator fundamentals
- Inputs, outputs, and control logic
- Identifying abnormal sensor readings
- Monitoring real-time equipment parameters
- Comparing actual values against expected conditions
- Understanding fault-code conditions and triggers
- Diagnostic code interpretation methodology

- Event-code analysis
- Identifying intermittent electronic faults
- Electrical circuit troubleshooting principles
- Using parameter trends to support diagnosis
- Correlating ET information with physical equipment symptoms

Day 4 - Equipment Testing & Adjusting Procedures

Verification, Testing and System Adjustment

- Principles of equipment testing and adjustment
- Preparing equipment for testing procedures
- Selecting appropriate test points and parameters
- Checking operating conditions before adjustment
- Component and system testing methodology
- Sensor and actuator verification
- Pressure, temperature, speed, and performance considerations
- Understanding calibration requirements
- Adjustment procedures and technical specifications
- Using ET-supported testing functions
- Evaluating test results
- Determining whether adjustment or repair is required
- Verification following adjustment
- Recording test and adjustment results

Day 5 - Advanced Troubleshooting & Diagnostic Best Practices

Integrated Fault Diagnosis and Maintenance Decision-Making

- Developing advanced troubleshooting strategies
- Combining ET data with equipment observations

- Diagnosing multiple and related fault conditions
- Prioritizing diagnostic codes and symptoms
- Identifying probable root causes
- Troubleshooting intermittent problems
- Distinguishing electronic faults from mechanical problems
- Avoiding unnecessary component replacement
- Post-repair diagnostic verification
- Clearing and reviewing diagnostic information appropriately
- Documenting troubleshooting findings and corrective actions
- Improving diagnostic efficiency and equipment reliability
- Troubleshooting case scenarios
- Final knowledge review and key technical takeaways

Registration form on the Training Course: Advanced Equipment Troubleshooting, Testing & Adjusting with Electronic Technician (ET)

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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