



Training Course:
HMC 8041 Power Supply & RTM3004.04 Digital
Oscilloscopes

14 - 18 February 2027
Cairo (Egypt)

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Training Course code: EN234755 From: 14 - 18 February 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Modern electronic testing and measurement rely heavily on precision instruments such as programmable power supplies and digital oscilloscopes. The HMC 8041 power supply and RTM3004 digital oscilloscope are widely used tools for analyzing, testing, and troubleshooting electrical and electronic systems. Mastery of these instruments is essential for accurate diagnostics, system validation, and performance optimization.

This program, designed by Global Horizon Training Center, equips participants with the practical knowledge and hands-on skills required to operate, configure, and utilize HMC 8041 power supplies and RTM3004 oscilloscopes effectively in testing and measurement applications.

Course Objectives

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

- Understand the principles of electrical measurement and signal analysis
- Operate and configure the HMC 8041 programmable power supply
- Utilize RTM3004 digital oscilloscopes for signal acquisition and analysis
- Measure voltage, current, frequency, and waveform characteristics
- Apply triggering, scaling, and signal processing techniques
- Troubleshoot electrical and electronic circuits using test equipment
- Ensure safe operation and proper handling of instruments
- Interpret measurement results for diagnostics and decision-making

Target Audience

This program is designed for:

- Electrical and Electronics Engineers
- Instrumentation and Control Engineers
- Maintenance and Testing Technicians
- Laboratory and R&D Personnel
- Technical Specialists in electronics and measurement
- Students and professionals working with test equipment

Outline

Day 1: Fundamentals of Electrical Measurement and Instrumentation

- Basics of electrical signals and waveforms
- Measurement units and parameters voltage, current, frequency
- Introduction to test and measurement equipment
- Safety practices in electrical measurements
- Overview of HMC 8041 and RTM3004

Day 2: HMC 8041 Power Supply Operation and Configuration

- Features and specifications of HMC 8041
- Voltage and current control settings
- Operating modes and protection features
- Programming and remote operation basics
- Practical applications in circuit testing

Day 3: RTM3004 Oscilloscope Fundamentals

- Oscilloscope architecture and functions
- Signal acquisition and display
- Channel configuration and scaling
- Basic measurements and waveform analysis
- Introduction to triggering techniques

Day 4: Advanced Oscilloscope Applications and Analysis

- Advanced triggering and signal capture
- Frequency, phase, and timing measurements
- Signal integrity and noise analysis
- Using math functions and analysis tools
- Troubleshooting electronic circuits

Day 5: Integration, Troubleshooting, and Practical Applications

- Using power supply and oscilloscope together
- Testing and validating electronic systems
- Fault diagnosis and problem-solving techniques
- Best practices in measurement and reporting
- Case studies and real-world applications

Registration form on the Training Course: HMC 8041Power Supply & RTM3004.04 Digital Oscilloscopes

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