

Advanced VRV Inverter Air Conditioning Maintenance and Optimization

15 – 19 November 2026
Amman (Jordan)

UK Training

PARTNER

A large, detailed image of chess pieces on a checkered board. In the foreground, a gold king piece stands prominently next to a silver pawn. To the left, another silver pawn is visible. The background features concentric circles, suggesting a radar or signal pattern.

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Ref: 3254527_160628 **Date:** 15 – 19 November 2026 **Location:** Amman (Jordan) **Fees:** 8800 GBP

Introduction

VRV Variable Refrigerant Volume central air conditioning systems powered by inverter technology represent some of the most advanced innovations in climate control for large and complex buildings. These systems offer unmatched flexibility, energy efficiency, and optimal temperature control, making them ideal for both cooling and heating applications. With the integration of inverter air conditioners, VRV systems can adjust their capacity in response to changing needs, delivering significant energy savings and consistent performance. This comprehensive 5-day training program is designed for maintenance professionals who wish to enhance their knowledge and skills in operating, maintaining, and troubleshooting VRV Inverter systems. The course will focus on system optimization, reducing energy consumption, and addressing faults to ensure the systems run at maximum efficiency.

Course Objectives

- Understand the fundamentals of VRV systems with inverter technology: Participants will learn the definition of VRV, the meaning of VRV, and how these systems differ from traditional VRV systems. The course covers how VRV inverter technology operates and its key benefits in modern air conditioning.
- Master the latest maintenance techniques for VRV Inverter systems: The course will teach how to use advanced tools and techniques to enhance system performance, optimize energy use, and maintain inverter air conditioners effectively.
- Diagnose and fix common faults using advanced tools: Participants will learn to identify and address common faults in VRV systems, using measurement tools like pressure gauges and refrigeration meters to quickly troubleshoot and fix problems.
- Adjust settings for peak performance: Learn how to fine-tune the VRV air conditioning systems for optimal performance under various operating conditions.
- Understand environmental regulations: The course will also cover the environmental impact of refrigerants, eco-friendly practices, and energy-efficient HVAC solutions.
- Utilize remote monitoring tools: Learn how to use remote monitoring software to control and monitor VRV systems from anywhere, making maintenance easier and more efficient.

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A graphic illustration of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a gold pawn nearby. The background shows concentric circles emanating from behind the king piece, suggesting a strategic or leadership theme.

Course Outlines

Day 1: Introduction to VRV Inverter Systems

- Overview of VRV systems: What is a VRV air conditioning system and how does it work?
- Differences between traditional VRV and VRV Inverter systems.
- Advantages and challenges of VRV inverter systems.
- Introduction to advanced control technologies in central air conditioning.

Day 2: Basic Operation and System Adjustments

- Understanding refrigerant flow and regulating it for maximum system efficiency.
- Adjusting air distribution and ventilation to optimize performance.
- Temperature and humidity control technologies.
- Basic system setup and initial operating steps.

Day 3: Diagnosing Faults and Preventive Maintenance

- Identifying common faults in VRV systems and diagnosing issues.
- Using measurement tools like pressure gauges and refrigeration meters for accurate troubleshooting.
- Preventive maintenance strategies for longer system lifespan.
- Performing routine inspections and practical tests.

Day 4: Improving Energy Efficiency

- Analyzing energy consumption in VRV Inverter systems and identifying areas for improvement.
- Adjusting settings to reduce energy usage without sacrificing performance.
- Applying modern techniques to monitor energy use and enhance system efficiency.
- Case studies on energy savings in large buildings.

Day 5: Remote Monitoring and Control

- Exploring the latest tools for remote monitoring and system control.
- How to use remote control software for real-time system monitoring and troubleshooting.
- Final steps to integrate maintenance management systems for efficient operation.

Day 6: Advanced Troubleshooting Techniques

- Deep dive into complex diagnostics for more difficult system faults.
- Hands-on workshop: Troubleshooting real-world VRV system issues.
- Exploring software-based diagnostics tools.
- Best practices for documenting faults and solutions for future reference.

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Day 7: System Integration and Automation

- Understanding the integration of VRV systems with Building Management Systems BMS.
- Exploring automation technologies for HVAC systems to improve operational efficiency.
- The benefits of integrating VRV systems with BMS for better energy management and maintenance.
- Practical session: Integrating VRV systems with BMS.

Day 8: Environmental Considerations and Regulations

- Overview of environmental standards for HVAC systems.
- Understanding the impact of refrigerants on the environment and eco-friendly technologies.
- Exploring sustainable HVAC solutions and energy recovery systems.
- Discussion on the latest trends in energy-efficient air conditioning.

Day 9: Practical Application and Hands-on Training

- Hands-on training: Installing, operating, and maintaining VRV inverter systems.
- Simulated exercises to help reinforce system knowledge and troubleshooting skills.
- Peer-to-peer troubleshooting sessions to share techniques and solutions.
- Role-playing maintenance scenarios to handle common system issues.

Day 10: Review, Assessment, and Future Trends

- Comprehensive review of all topics covered in the course.
- Assessments: Practical tests and quizzes to evaluate knowledge retention.
- Discussion on the future of VRV Inverter technology and emerging trends in HVAC systems.
- Feedback session and course evaluation.

Why Attend This Course: Wins & Losses!

By not joining this course, you could miss out on vital knowledge and skills that are critical for advancing your career in HVAC system maintenance. This course will:

- Equip you with the tools and knowledge to improve energy efficiency and reduce operating costs, a growing need in the industry.
- Teach you how to diagnose and fix common faults in VRV systems, increasing your troubleshooting speed and accuracy.
- Enhance your ability to implement preventive maintenance strategies, which helps ensure longer system lifespan and optimal operation.
- Provide you with expertise in remote monitoring and control, which is becoming essential in modern HVAC systems.
- Help you understand the latest trends in sustainable HVAC solutions, keeping you ahead of the curve in an ever-evolving industry.

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Conclusion

VRV systems, powered by inverter technology, are the future of energy-efficient, flexible air conditioning in large-scale buildings. Whether you're new to VRV or looking to sharpen your skills, this course offers the expertise you need to stay competitive in the industry. Learn how to operate, maintain, and troubleshoot VRV inverter air conditioning systems like a pro, and keep systems running at peak efficiency. Don't miss out on this valuable opportunity.

join the course now and become an expert in VRV inverter technology, air conditioning system maintenance, and energy-saving solutions.

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