

FUJITSU TRAINING

Course 1

An Introduction to the Fujitsu Product Portfolio

Course Objectives

To develop an understanding of the Fujitsu product range.
To educate the attendee on the importance of air conditioning, how air conditioning works and the benefits and advantages of the Fujitsu product.

Course Summary

Throughout this course the delegates will receive:

- Explanation on how to educate the end user of the benefits of air conditioning.
- A basic understanding of the primary functions of an air conditioner.
- An overview of the features and options on the Fujitsu models.
- Details on Fujitsu marketing and sales material.
- Training course information and a tour of our training rooms.
- How and when to select the correct system.
- Explanation on how to operate a system efficiently.
- Explanation of the different sophisticated control options.
- Design Simulator demonstration.
- Website demonstration.

Course 2

Split and Multi-Split System - Installation, Commissioning, Troubleshooting and Service Tool

NEW

Course Objectives

To develop an understanding of the Fujitsu Split Systems. To obtain sufficient knowledge to install, commission and troubleshoot these types of systems.

Course Summary

Throughout the course practical exercises will reinforce the learning process. The course will include:

- Introduction to the course objectives.
- Explanation of the terms and technologies (e.g. Inverters, double swing louvres etc).
- Review of refrigerant and electrical circuit diagrams and basic operation.
- Pipe work, interconnecting cable and control methods.
- Practical exercises (e.g. board and fan motor change).
- Remote controller types - functions, setting up, fault codes and Wi-Fi options.
- Fault finding - practical exercises.
- Introduction to the new fault finding application.

Proof of Company F-Gas registration is required for this course.

Course 3

Mini VRF - Installation, Commissioning and Troubleshooting

NEW

Course Objectives

To develop an understanding of the Fujitsu Advanced Mini VRF Systems. To obtain sufficient knowledge to install, commission and troubleshoot these types of systems.

Course Summary

Throughout the course practical exercises will reinforce the learning process. The course will include:

- Introduction to the course objectives.
- Explanation of the terms and technologies (e.g. inverters, double swing louvres etc).
- Review of refrigerant and electrical circuit diagrams and basic operation.
- Pipe work, interconnecting cable and control methods.
- Practical exercises (e.g. Special functions and commissioning procedure).
- Remote controller types - functions, setting up, fault codes and Wi-Fi options.
- Fault finding - introduction and practical exercises, including service tool demonstration.
- Introduction to the new fault finding application.

Proof of Company F-Gas registration is required for this course.

Course 4a/4b

VRF System Application and Design Including Design Simulator

4a Full Day
4b Half Day

Course Objectives

To develop an understanding of the Fujitsu VRF Systems. To obtain sufficient knowledge for the application and design of this type of system for the both new build and refurbishment projects.

Course Summary

Throughout this course, with the use of extensive hands-on exercises, the delegates will:

- Understand the basic operation and features of a Fujitsu VRF System. (4a)
- Select indoor units and understand the features of each type of indoor unit. (4a/4b)
- Understand the features of the outdoor unit. (4a)
- Understand the limitations of the system. (4a)
- Calculate the system refrigerant charge. (4a/4b)
- Design the refrigerant pipe work. (4a/4b)
- Understand the system power supply requirements. (4a)
- Design the system control wiring and understand the system address setting Configuration. (4a/4b)
- Understand the control system options and the configuration of each. (4a/4b)
- Design a complete VRF system for an example building using Design Simulator. (4a/4b)
- Website demonstration. (4a)

**Course
5**

VRF System Installation, Commissioning and Service Tool

NEW**Course Objectives**

To develop an understanding of the Fujitsu VRF Systems. To develop a basic understanding of the design methodology relevant to Fujitsu VRF Systems. To obtain sufficient knowledge to install and commission these type of systems

Course Summary

Throughout this course with the use of extensive hands-on training, the delegates will:

- Understand the limitations of the system.
- Understand the pipe work design.
- Calculate the system refrigerant charge.
- Understand the system power supply requirements.
- Design the system control wiring and understand the system address setting configuration.
- Understand the control systems options.
- Set-up the system address configuration of the outdoor and indoor units.
- Understand how to start-up the system and test run.
- Understand the recommended installation procedures.
- Learn how to set up and operate the Central Remote Controller.
- Learn how to avoid common mistakes.
- Introduction to the new fault finding application.

**Proof of Company F-Gas registration
is required for this course.**

**Course
6**

VRF Advanced Service and Troubleshooting including Service Tool

Course Objectives

To develop a thorough understanding of Fujitsu VRF Systems. To obtain specialist knowledge to commission and troubleshoot this type of VRF system using the Service Tool Software.

Course Summary

Throughout this course with the use of extensive hands-on training, the delegates will:

- Understand the limitations of the system.
- Calculate the system refrigerant charge.
- Understand standard service procedures (including oil recovery, pump-down etc.).
- Use the CRC and TTPC as fault-finding tools.
- Learn fault-finding procedures.
- Understand the meaning of system error codes and how to rectify them.
- Learn component fault finding techniques.
- Learn how to commission and troubleshoot the system using the Fujitsu Service Tool Software.
- Introduction to the new fault finding application.

**Proof of Company F-Gas registration
is required for this course.**

**Course
7**

VRF Central Controllers - Installation and Commissioning

NEW**Course Objectives**

To develop a thorough understanding of Fujitsu VRF communication network and control options. To obtain specialist knowledge to install, commission and troubleshoot these types of VRF controllers, software and interfaces.

Course Summary

Throughout this course with the use of extensive hands-on training, the delegates will:

- Understand the limitations of the system and the control options.
- Install and commission Central Controllers (including software).
- Understand firmware and data transfer.
- Understand basic BMS contacts (e.g. Fire alarm and motion operation).
- Use the Central Controllers as a fault-finding tool.
- Learn fault-finding procedures and remote monitoring.
- Understand errors and error codes and how to rectify them.
- Introduction to the new fault finding application.

**Course
8**

R32 - An Insight to R32, Including Installation, Commissioning and Troubleshooting

NEW**Course Objectives**

To develop an understanding of the benefits of R32. To obtain sufficient knowledge about the differences between R410A and R32. Using the correct tools, installation methods, commissioning and troubleshooting procedures.

Course Summary

This course will include the following:

- An overview of R32.
- An understanding of the product and the benefits.
- Explanation of terms and technologies.
- Review of refrigerant and electrical circuit diagrams and basic operation.
- Pipe work, interconnecting cable and control methods.
- Practical exercises (e.g. Board and fan motor change).
- Remote controller types - WiFi, functions, setting up and fault codes.
- Fault finding - practical exercises.
- Website demonstration.
- Introduction to the fault finding application.

**Proof of Company F-Gas registration
is required for this course.**

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Course 9

ATW Systems - Product Overview, Installation, Commissioning and Troubleshooting

Course Objectives

To develop an understanding of the Fujitsu ATW Systems, with operational functions and advanced troubleshooting service techniques.

Course Summary

Throughout this course, with the use of extensive hands-on training, the delegates will:

- Understand the basic operation and features of the Fujitsu ATW System.
- A detailed explanation of the system components and their function.
- Refrigerant circuit overview.
- Water circuit overview.
- Wiring and PCB circuit overview.
- Understanding the system power supply requirements.
- Voltage, pressures and temperature explanation.
- Commissioning and service functions.
- Incorrect field setting effects explained.
- ACS service software and troubleshooting demonstration.

Course 10

AHU DX Kit and Freeverter options - Design, Installation and Commissioning

Course Objectives

To develop an understanding of the Fujitsu AHU options and control solutions. To obtain sufficient knowledge to install these types of systems.

Course Summary

Throughout this course with the use of extensive hands-on training, the delegates will:

- Selecting an AHU and the correct DX Kit.
- Installing DX Kit and Freeverter.
- Configuration.
- Control options, including external controls and BMS solutions.
- Commissioning.

Course Locations

London - All Courses

Dublin - Courses 1 - 9

All other Venues - Course 1, 2, 3, 4b, 5 & 6

Courses 1 and 4b are available on request at customers premises.

UK - London

- Hampshire

- Midlands

- Glasgow

- Belfast

Ireland - Dublin

