



**SORINTEQ**

# FUNDAMENTALS OF RADIO FREQUENCY EXPLOITATION

2-Day  
Intensive Specialist Course  
For the Government Sector

- ✓ 2 Day Programme
- ✓ Specialist Training for Law Enforcement
- ✓ All Training Equipment Provided
- ✓ In Association With the University of Buckingham

**Contact Us**

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 [Sorinteq Academy](http://SorinteqAcademy)



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## Course Overview

As we move through the modern digital world, we are constantly surrounded by radio signals. Smartphones, Wi-Fi networks, Bluetooth devices, the Internet of Things (IoT), GPS, and near field communication (NFC) systems continuously interact with the radio frequency (RF) spectrum, often leaving behind valuable digital traces.

The Fundamentals of Radio Frequency Exploitation Course is a practical 2-day classroom programme designed to introduce Government investigators and intelligence professionals to the opportunities presented by RF-based data and signatures.

The course explores how radio frequency activity can be analysed to identify patterns, movements, behaviours, and associations linked to subjects of interest. Learners will develop an understanding of how seemingly fragmented RF data can be exploited to build a broader intelligence picture and support operational investigations.

This course focuses on lawful, proportionate, and intelligence-led application of RF exploitation techniques within Government operational environments.

## Who is the course for?

This course is designed for Government personnel involved in intelligence, investigations, and operational support, including:

- Intelligence officers and analysts
- Law enforcement investigators
- Counter-terrorism and organised crime teams
- Cyber and technical surveillance practitioners
- Government security and operational support teams
- Personnel supporting covert and technical investigations

No advanced RF technical knowledge is required, although familiarity with investigative or intelligence processes is beneficial.





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## Course Content

The course provides practical and operationally focused instruction across key areas, including:

- Introduction to the RF Spectrum
- Understanding radio frequency fundamentals and operational significance
- RF Signatures in the Modern Environment
- Smartphones, Wi-Fi, Bluetooth, GPS, NFC, and IoT devices
- Digital Breadcrumbs and Subject Tracking
- Identifying movement patterns, behavioural indicators, and association opportunities
- Data Sets and Investigative Opportunities
- Understanding what can be collected, analysed, and exploited
- RF Analysis Techniques
- Interpreting fragmented data to support intelligence development
- Operational Application of RF Exploitation
- Supporting investigations, surveillance, and technical operations
- Legal Authorities and Governance
- Proportionality, necessity, authorisation, and compliance considerations
- Case Studies and Practical Scenarios
- Real-world operational examples demonstrating RF exploitation success

### Final Exercise Phase

- Operational RF Investigation Scenario
- Learners analyse a realistic subject movement and activity profile using RF-related intelligence
- Pattern Development and Intelligence Mapping
- Applying learned techniques to identify behaviours and opportunities
- Debrief and Operational Review
- Structured feedback on investigative approach, analytical thinking, and intelligence output





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## Aims and Objectives of the Course

By the end of the course, participants will be able to:

- Understand the fundamentals of the radio frequency spectrum and its operational relevance
- Identify common RF-emitting devices and the digital signatures they produce
- Recognise investigative opportunities created through RF activity and digital breadcrumbs
- Analyse RF-related data to support movement, behavioural, and pattern analysis
- Understand how smartphone, Wi-Fi, Bluetooth, IoT, and NFC technologies contribute to intelligence development
- Apply RF exploitation techniques in support of operational investigations
- Understand legal, ethical, and governance considerations for RF exploitation activity
- Integrate RF intelligence into wider investigative and intelligence frameworks

## Why Choose Sorinteq

Sorinteq delivers university-accredited, practitioner-led training trusted by Government agencies. Our RF exploitation training provides practical operational understanding, enabling investigators and intelligence professionals to exploit often-overlooked technical opportunities and convert RF signatures into actionable intelligence.

Students undertaking courses provided by Sorinteq may earn credits towards formal academic qualifications such as Post Graduate Certificate, Diploma or MSc at the university of Buckingham.

For further enquiries please email [info@sorinteq.com](mailto:info@sorinteq.com) or call Sorinteq on +44 (0)333 0063248.

Sorinteq provide all necessary training equipment including laptop computers, internet connectivity, mobile devices and training material.

