

# Training Brochure 2021



---

## Welcome



It is my pleasure to present the Forensic Analytics Spring 2021 brochure, which sets out our full range of training courses.

We provide accredited training in communications data, cell site analysis, radio frequency propagation surveying, digital forensics, OSINT, intelligence analysis, and more.

Our trainers are among the best in their fields – in fact, they train new and existing analysts, detectives, digital media investigators and radio frequency survey technicians for the majority of the UK's police forces. We also work with other agencies and sectors in the UK and internationally, so whatever your role, we can help you reach the next level in your area of interest or expertise.

Our team is available to speak to you about your training needs on 0800 158 3830, or you can email us at [training@forensicanalytics.co.uk](mailto:training@forensicanalytics.co.uk).

We look forward to hearing from you.

**Andrew Fahey**  
Training Director



# Contents

<b>What we offer</b>	<b>8</b>
<b>Our courses:</b>	
<b>Communications Data</b>	<b>10</b>
CDR processing overview, L1 Cell site overview for disclosures teams, L1 Comms data overview for Investigators, L1 Communications data evidence for Barristers and Solicitors, L1 CDR processing & interpretation, L2 Next generation comms data analysis, L2 5G overview, L3 Advanced cell site analysis, L3 Call obfuscation techniques, L3 CDR processing follow-on training, L3 Communications data analysis techniques, L3 Interpreting GPRS billing workshop, L3 Interpreting internet protocol (IP) events, L3	
<b>Analysis</b>	<b>16</b>
Intelligence researcher training, L1 Communications data investigation immersive exercise, L2 Intelligence analysis training, L3 Strategic intelligence analysis, L2 Advanced structured analytical techniques, L3 Courtroom skills, L3 Managing an effective intelligence environment, L3 Excel for LEA, L1 Excel for LEA, L2 Excel for LEA, L2 Excel for LEA – Advanced formulas & functions, L3 Excel for LEA – Excel dashboard, L3 Excel for LEA – Introduction to visual basics for applications, L3 Open-source intelligence training, L3 Report writing and dissemination, L3 Evidential mapping, L3	
<b>Radio Frequency Propagation Surveys (RFPS)</b>	<b>22</b>
RF survey overview, L1 RFPS practical, L2 LIMA Cell Monitor training, L3 RFPS, L3 RFPS follow-on training, L3	

<b>Software</b>	<b>26</b>
CSAS bootcamp, L1 CDAN Nexus e-learning for basic users, L1 CSAS for Investigators, L1 CSAS v2 e-learning, L1 CSAS advanced user, L3 CSAS v3 e-learning, L1 CSAS v3 e-learning, L2 CSAS v3 e-learning, L3	
<b>Meet our trainers</b>	<b>32</b>
<b>Testimonials</b>	<b>34</b>
<b>Practical questions answered</b>	<b>36</b>

## How to use this brochure

The level of each course appears alongside its title.

L1 - Introductory

L2 - Intermediate

L3 - Advanced

To find out if it's a suitable training option for you, please select the course name to read more about it, including what the course covers, how long it lasts\*, the price, and to locate the course code (which you'll need for booking). We also address some queries you might have before booking a course – such as how, where and when they take place – at the end of the brochure, within our practical questions section.

Our team are on hand to talk about any aspects of the training with you, whether you are new to Forensic Analytics, or you have completed a course with us before and want to discuss the next step to take.

*\*A half day course usually runs from 09:00 to 13:00 and a full day is from 09:00 to 17:00.*

## What we offer

### Quality of training

Our training team is comprised of engineers, former senior police Investigators, Intelligence Analysts, and data specialists. Their skills are eclectic, and they are all highly respected in their areas of expertise. Many prestigious institutions put their trust in us, including the Home Office, University College London, the National Crime Agency, Zurich Police, New Zealand Police and most of the police forces in the UK.

### Qualifications

Several of our courses provide a City & Guilds qualification, and CSAS or CDAN certified user status is acquired on completion of selected software courses.

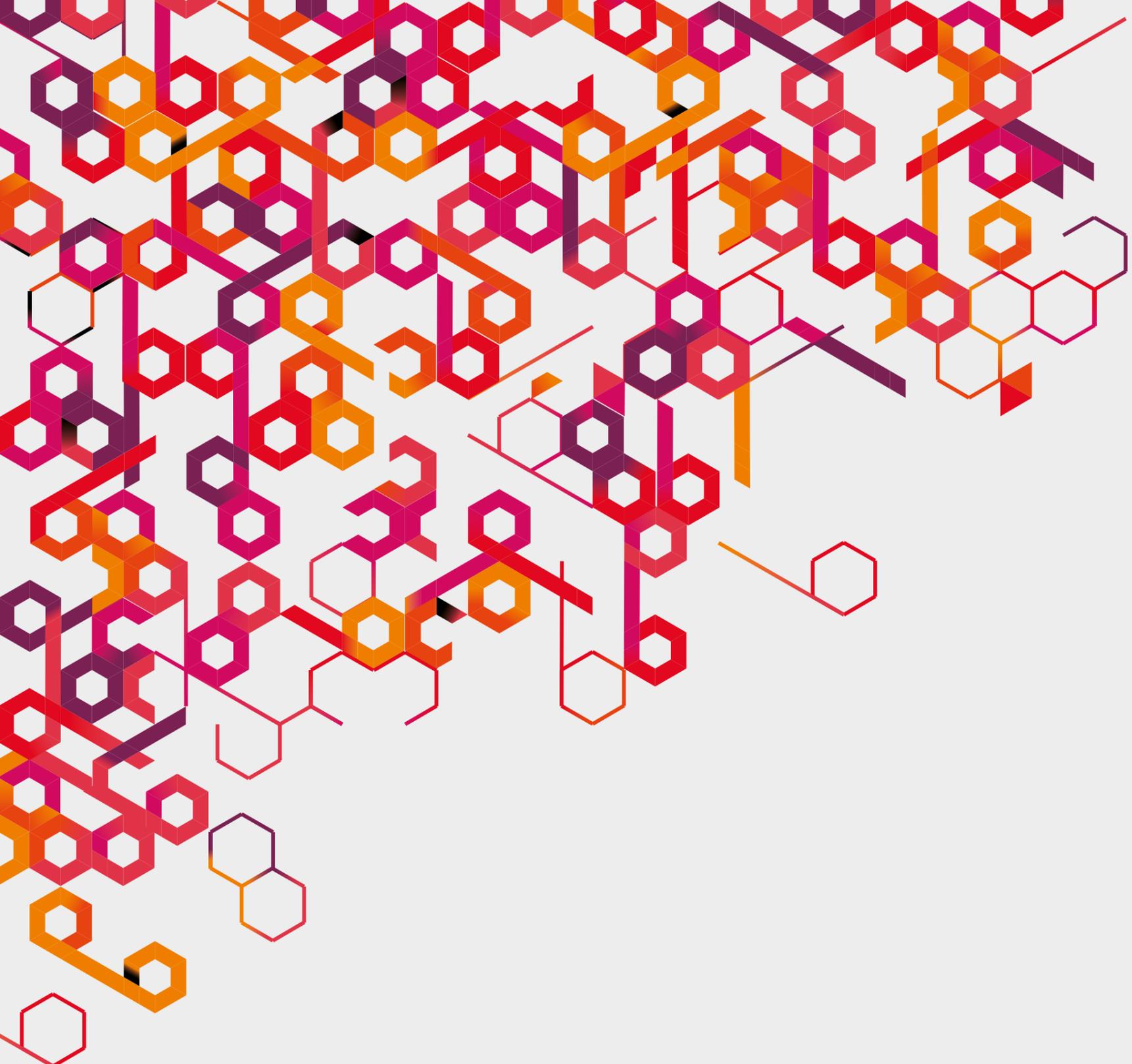
### Online learning

Courses can be delivered virtually – some within set timeframes and others that trainees can do at their own pace. Since March 2020, we've delivered live online training to around 1,000 registrants from police forces and agencies in the UK and abroad. While we look forward to the day we can return to the classroom for in-person training, we are also excited about the possibilities for even more live training via Teams in the future.

### Classroom-based learning

When current restrictions have been lifted, we can come to your organisation, or you can come to us at our training centre in Hertfordshire, UK. All we need is a whiteboard to project to and a room to talk to you in. We bring everything else to you.





## Communications Data



# Communications Data

Call Detail Records (CDRs) are the lifeblood of comms data analysis. Our training courses help analysts and Investigators understand the meaning behind the CDR records so they can piece together the detail of events described in them and better understand how this data can support their investigations.

“Brilliant course! Although I have been cleaning data and using CSAS for some time, I have learnt a lot. Great trainer, very helpful, knowledgeable and friendly.”

CDR processing and interpretation course attendee

## CDR processing overview

Level 1  
 Course code FA022  
 Duration 1 day  
 Group price £2,250  
 Seat price £425

Suitable for those wanting to get an overview of the basic operation of comms networks. The course describes the way that basic services (calls, texts, data sessions) are handled. It then looks at the various CDR types that are generated and explains the meaning and relevance of key data fields. A brief overview of current CDR formats is also provided.

## Cell site overview for disclosure teams

Level 1  
 Course code FA029  
 Duration 2 days  
 Group price £4,500  
 Seat price £850

Ideal for staff working in the Law Enforcement liaison or disclosures departments of comms providers. This course provides a background to the network technologies being employed, discusses the interface between network activities and billing data, and enables attendees to understand the value and relevance of the data they are disclosing. It also provides an overview of ways in which the disclosed ‘product’ is used to aid investigations.

## Comms data overview for investigators

Level 1  
 Course code FA018  
 Duration 1 day  
 Group price £2,250  
 Seat price £425

This course would suit Investigators looking to explore the workings of a mobile network. It discusses the meaning and relevance of communications data evidence – Call Detail Records (CDRs) – obtained from network operators, and shows the investigative links that can be established between CDRs, handset download data, Automatic Number Plate Recognition (ANPR) the capturing of other forms of evidence.

## Communications data evidence for Barristers and Solicitors

Level 1  
 Course code FA044  
 Duration 2 hours  
 Group price £2,250  
 Seat price £425

Ideal for all lawyers working in the criminal justice sector: CPS, Barristers and Defence Solicitors. This course details the system architecture responsible for the generation of communications data records; it explains the evidential relevance of different data fields and provides guidance on the appropriate use of communications data records in the evidential arena. Attendees will gain an understanding of the value and relevance of the data they are presented with.

## CDR processing and interpretation

Level 2  
 Course code FA015  
 Duration 3 full days/5 half days  
 Group price £6,750  
 Seat price £1,275

Options: 3 days, 09:00 to 17:00; or 5 mornings, 09:00 to 13:00

Accredited by City & Guilds, this course offers an externally recognised qualification in CDR cleansing, processing and analysis. It provides an in-depth exploration of how mobile networks work and how and where call data is captured. Attendees will explore the meaning and relevance of CDR fields and examine the investigative benefits that an understanding of the data can provide. Current CDR formats are examined in depth and exercises that offer hands-on practice of cleansing/parsing that data are undertaken. An optional extra practice day can be added.

## Next generation comms data analysis

Level 3  
 Course code FA017  
 Duration 2 full days/4 half days  
 Group price £4,500  
 Seat price £850

Options: 2 days, 09:00 to 17:00; or 4 mornings, 09:00 to 13:00

Ideal for CD analysts, this course examines new and upcoming forms of communication, network types and calling techniques: 4G, 5G, VoLTE, SRVCC, Wi-Fi Calling and VoIP, among others. It gives an overview of how these new services and technologies work and looks at the CDR data that they provide. The purpose is to prepare CD analysts for the types of data that will become common in the near future, and how to extract evidence from them.



## CDR processing follow-on training

Level	3
Course code	FA025
Duration	1 day
Group price	£2,250
Seat price	£425

Ideal for those who work in/with comms data, this course provides an opportunity to spend the day with an experienced Communications Data Analyst. Topics for discussion will include cleansing and parsing techniques, analytical methods, report writing and court presentation skills.

## Communications data analysis techniques

Level	2
Course code	FA038
Duration	2 days
Group price	£4,500
Seat price	£850

This new course has been designed by Intelligence Analysts who have worked at local, national and international levels on criminal investigations into organised crime groups, kidnaps and terrorism. The one-day curriculum covers the Investigatory Powers Act 2016, and the process of requesting comms data. Also examined is the importance of attributing telephone numbers and devices, and methods of attribution evidence collation. Over the three days, attendees will explore the techniques for the analysis of call data, including:

- Common number and cell analysis.
- Using data to examine the geographical profile of a device, and therefore that of the user, identifying potential home addresses, meeting locations etc.
- Co-location to identify “burner” phones and potential meetings.
- Comparison with surveillance, CCTV, ANPR, handset downloads.
- The course features a scenario exercise involving the production of an evidential attribution report and an evidential sequence of events report.

### 5G overview

Level	3
Course code	FA030
Duration	1 day
Group price	£2,250
Seat price	£425

For those whose role involves investigation and analysis, this course provides an overview of 5G networks in comparison to existing 2/3/4G networks and a guide to the potential effects on comms data analysis, cell site analysis and RFPS surveying that the adoption of 5G will bring. We examine the likely forensic impact of 5G in the near and medium terms so participants can begin to assess the effect this will have on their ability to investigate and analyse cases that include 5G call data.

### Advanced cell site analysis

Level	3
Course code	FA002
Duration	3 days/5 mornings
Group price	£6,750
Seat price	£1,275

For students with existing and advanced knowledge of cell site analysis, this course provides a deep understanding of mobile network operation, the content and meaning of CDRs, the investigative benefit of RFPS surveys and the types of survey that can be undertaken. The course offers underpinning technical knowledge for staff who may need to give evidence in court.

### Call obfuscation techniques

Level	3
Course code	FA036
Duration	Half a day
Group price	£1,125
Seat price	£212.50

Those who work in criminal investigations will have seen a trend emerging in recent years in the use of various methods to conceal communications. This half-day course covers developments in CLI (Calling Line Identity) Spoofing, SIM Card Spoofing, IMEI (handset) Spoofing, and the use of VoIP services to conceal communications. Attendees will learn how to identify spoofed/fake telephone numbers, and opportunities for identification of the true number. Encrypted communications, and hardened phones (the physical attributes and characteristics of CDRs) are also covered.

### Interpreting GPRS billing workshop

Level	3
Course code	FA037
Duration	1 day
Group price	£2,250
Seat price	£425

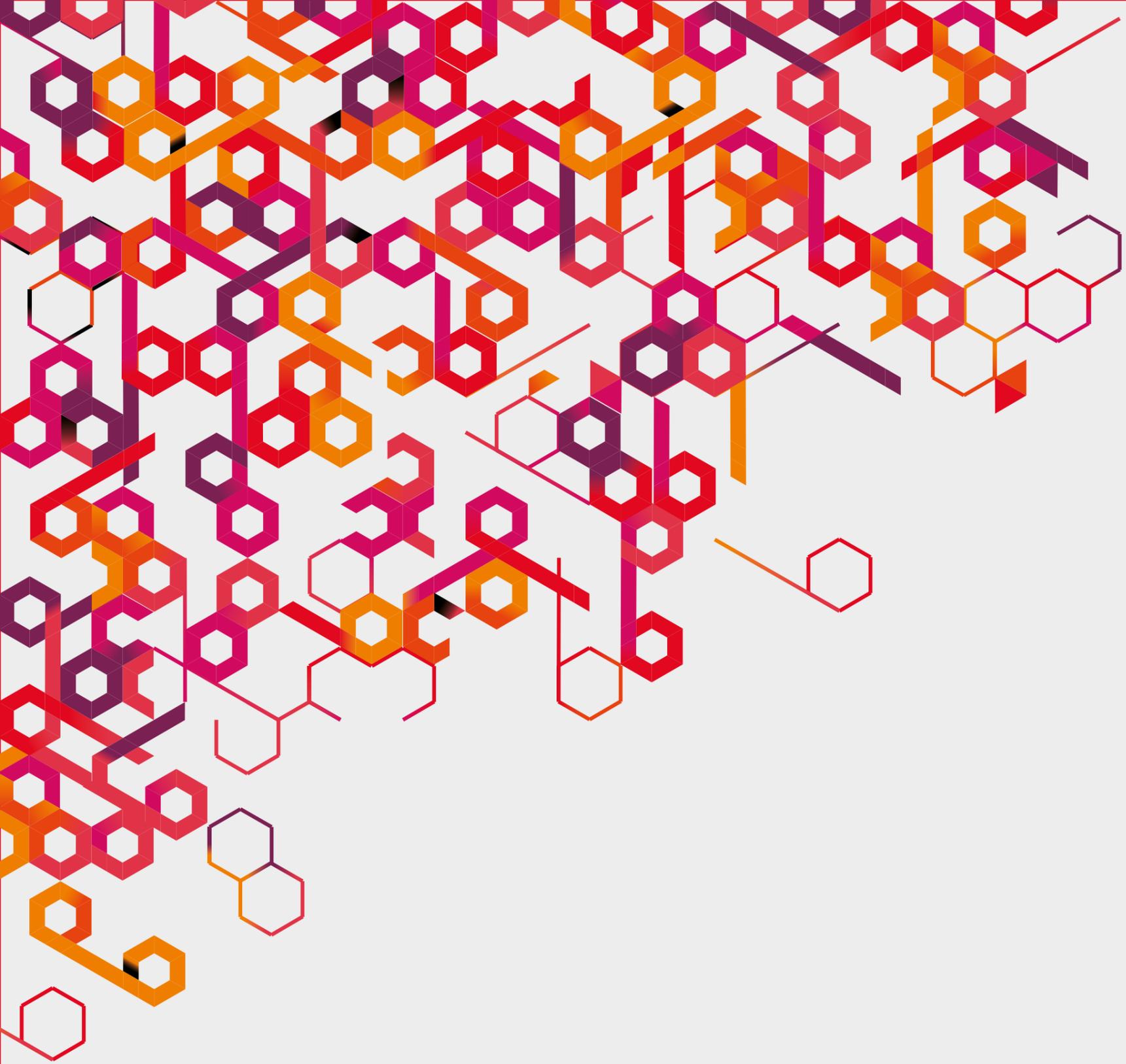
Mobile data records (known generically as “GPRS” data) are increasingly important to the Analyst and Investigator. When examined and interpreted with appropriate care and attention to detail, this information source can be a surprisingly rich source of geographic data and of certain aspects of users’ communications. Over the course of this day’s training, delegates will be shown examples of, and work with, sample data from each of the telephone service providers. Detailed explanations are given as to the methods by which phone companies provide data connections, and how the billing records are generated. By the end of the course, attendees will be able to recognise and make use of a variety of leads and investigative opportunities that routinely appear in the data.

### Interpreting internet protocol (IP) events

Level	3
Course code	FA042
Duration	1 day
Group price	£2,250
Seat price	£425

Suitable for Investigators who are exposed to IP addressing and IP networking. The aim of this one-day course is to teach delegates what IP is, its importance to connectivity across networks and to contextualise (with a number of scenarios) in which situations Investigators might encounter IP addressing and IP networking.

At the end of the course, delegates will have a good level of understanding and the confidence to discuss IP in general and the principles of IP operation. In addition, they will be able to apply the IP knowledge they have learned to a variety of Law Enforcement scenarios. Delegates will be able to recognise and understand IP addressing when it appears in CDRs, Wi-Fi Records, Router Logs and IPAR results.



**Analysis**

# Analysis

The role of the criminal Intelligence Analyst is essential to effective strategic and operational policing. We have brought the knowledge and skills of several highly-experienced Intelligence Analysts to bear on the creation of these training courses which are designed to assist you in your role and enhance the analysis you produce – be it for investigative success, or effective strategic management.

## Intelligence researcher training

Level 1  
Course code FA050  
Duration 5 days  
Group price £11,250  
Seat price POA

Ideal for intelligence researchers who want to gain the necessary knowledge and skills to apply the National Intelligence Model and work effectively in an intelligence environment. The course is supported by scenario-based activities and knowledge checks to ensure that the students are attaining the set objectives and can apply the knowledge gained in their role.

## Communications data investigation immersive exercise

Level 2  
Course code FA047  
Duration 3 days  
Group price £6,750  
Seat price POA

Over the course of this training exercise, attendees will take part in an investigation into gang-related crimes, considering a variety of digital evidence sources, Open-source intelligence and intelligence feeds. Delegates will learn practical methods for operational analysis of communications data and digital records, and how to work as part of an investigative team.

## Intelligence analysis training

Level 3  
Course code FA052  
Duration 10 days  
Group price £17,000  
Seat price POA

The Intelligence Analysis Techniques (IAT) course delivers a classroom-based syllabus aimed at understanding intelligence and analysis. The course will enable Intelligence Officers, Analysts and Investigators to develop proficiency in producing an intelligence assessment that informs decision-making. Through the learning, students will understand the role of the analyst and discipline of analysis as part of their function and responsibilities, together with understanding how evidence-based assessment informs and influences effective decision-making.

Students will learn the principles of why intelligence supports informed assessment, the processes for gathering, assessing, evaluating and disseminating intelligence in supporting organisational priorities. The source and provenance of intelligence, the methodologies and practical application of intelligence will also be covered.

The aims and objectives of the course are to provide the student with the necessary skills and understanding to undertake analysis and assessment of all source collection of data, information and intelligence. The teaching modules will provide insight, understanding and practical application of the structured analytical techniques and products that are required to undertake the role of an analyst within an effective intelligence-led operating environment.

Learners will develop invaluable and transferable knowledge-based skills for working with intelligence and analysis. This will be achieved through a combination of interactive sessions, practical assessment and real-life application in scenario-based group-working.

## Strategic intelligence analysis New

Level 2  
Course code FA048  
Duration 5 days  
Group price £11,250  
Seat price POA

Strategic analysis involves the application of analytical methodologies to identify the medium- and longer-term threats relating to organisational strategies by evaluating the opportunities and challenges faced by the organisation as it moves forward.

Students will be taught about the role of the analyst and that of analysis. The course deals with the role and key functions of the Strategic Analyst and explains how strategic analysis drives and informs the decision-making process. Students will gain a strategic understanding of threat, vulnerability and risk.

This course is designed for private organisations, public agencies and law enforcement.

## Managing an effective intelligence environment

Level 3  
Course code FA053  
Duration 3 days  
Group price £6,750  
Seat price POA

This course provides Intelligence Analysis Managers and Senior Investigating Officers with informed and practical instruction in the application of tasking and managing analytical and intelligence resources. It enables managers to support a productive and challenging environment and provides advice on enabling analytical resources to be used effectively to provide quality analytical products that inform decision makers.

## Advanced structured analytical techniques

Level 3  
Course code FA051  
Duration 5 days  
Group price £11,250  
Seat price POA

Advanced Structured Analytical Techniques training is designed to develop intelligence professionals who are operating, or have operated, within an intelligence led environment and are applying, or have applied, basic analytical techniques. The training will challenge mindsets, open debate and seek alternative critical thinking processes.

The course references and applies some of the methodologies developed and applied by Heuer, Pherson and Ratcliffe, when working within an intelligence led organisation and applying assessment to inform effective decision-making.

## Courtroom skills

Level 3  
Course code FA032  
Duration 1 day  
Group price £2,250  
Seat price £425

This course brings a new and innovative approach to training Intelligence Analysts and Investigators for appearing at court. Aspects that set it apart from other court skills courses include the emphasis on strong and confident delivery of evidence in chief, and key insights into the motivations and techniques used by Defence Lawyers. It is delivered by experienced Defence Barristers and Lawyers with experience at the UK Bar, the International Criminal Court, and elsewhere around the world.

Instruction is given on court layout, the roles of the parties in the court and the order of play. Advice is given on preparation, how to deal with questions, posture, composure, and various lawyers' techniques. For those who take the option of the two-day version of the course, the second day includes a visit to a real courtroom.

“Really enjoyable, I am excited to do my job – I feel much more confident in my role.”

Intelligence Analysis training attendee

## Excel for LEA – Level one

New

Level	1
Course code	FA039
Duration	1 day
Group price	£2,250
Seat price	£425

This course is suitable for anyone working with Microsoft Excel in Digital Forensics, Law Enforcement and the Legal profession. Attendees will receive an introduction to Excel and instruction on entering and editing data; using formulas and functions; formatting a worksheet; printing a workbook; creating charts; and using graphic objects.

## Excel for LEA – Level two

New

Level	2
Course code	FA060
Duration	1 day
Group price	£2,250
Seat price	£425

This course is suitable for anyone working with Microsoft Excel in Digital Forensics, Law Enforcement and the Legal profession. It provides instruction on linking worksheets and workbooks; consolidation; named ranges; advanced formulas (IF, VLOOKUP); advanced formatting; list management; and auditing worksheets.

## Excel for LEA – Level three

New

Level	3
Course code	FA061
Duration	1 day
Group price	£2,250
Seat price	£425

This course is suitable for anyone working with Microsoft Excel in Digital Forensics, Law Enforcement and the Legal profession. It provides instruction on advanced functions; data validation; protection; creating templates; analysis tools; PivotTables and PivotCharts; and Macros.

## Excel for LEA – advanced formulas & functions

New

Level	3
Course code	FA062
Duration	1 day
Group price	£2,250
Seat price	£425

This course is suitable for anyone working with Microsoft Excel in Digital Forensics, Law Enforcement and the Legal profession. It provides instruction on getting the basics right; logical functions; lookup functions; array functions; date functions; text functions; other functions.

## Excel for LEA – Excel dashboard

New

Level	3
Course code	FA063
Duration	1 day
Group price	£2,250
Seat price	£425

This course is suitable for anyone working with Microsoft Excel in Digital Forensics, Law Enforcement and the Legal profession. Following an opening overview, topics of the course include getting data ready for the dashboard; tables and 'PivotTables'; Excel tools for use on dashboards; essential formulas for dashboards; working with named ranges; dynamic charts; form controls; Macros; and protecting and sharing.

## Excel for LEA – introduction to visual basics for applications

New

Level	3
Course code	FA064
Duration	1 day
Group price	£2,250
Seat price	£425

This course is suitable for anyone working with Microsoft Excel in Digital Forensics, Law Enforcement and the Legal profession. It provides an introduction to VBA and instruction on developing Macros, using Visual Basic Editor, programming basics, using Loops, user forms and error handling.

## Open-source intelligence training

Level	3
Course code	FA049
Duration	1 day
Group price	£2,250
Seat price	£425

Recommended for Intelligence Operatives and front-line Investigators from various disciplines and market sectors, this course introduces participants to the tools and techniques of exploiting Open-source intelligence. Pre-requisites: existing experience of traditional investigations and using Open-source intelligence is an advantage but isn't a pre-requisite for attendance.

Course objectives: to provide participants with a detailed overview of the internet and datasets accessible via the internet, along with tools and techniques for exploiting Open-source intelligence and using it during investigations.

## Report writing and dissemination

Level	2
Course code	FA040
Duration	2 full days/4 half days
Group price	£4,500
Seat price	£850

*Options: 2 days, 09:00 to 17:00; or 4 mornings, 09:00 to 13:00.*  
The power of a well-written internal report can make all the difference to progress on an intelligence operation or an investigation. When progress is made to the point that a prosecution can take place, statements must be drafted with care and attention to detail, to ensure that all relevant aspects of the evidence that you have examined or produced are explained and made clear.

This course covers:

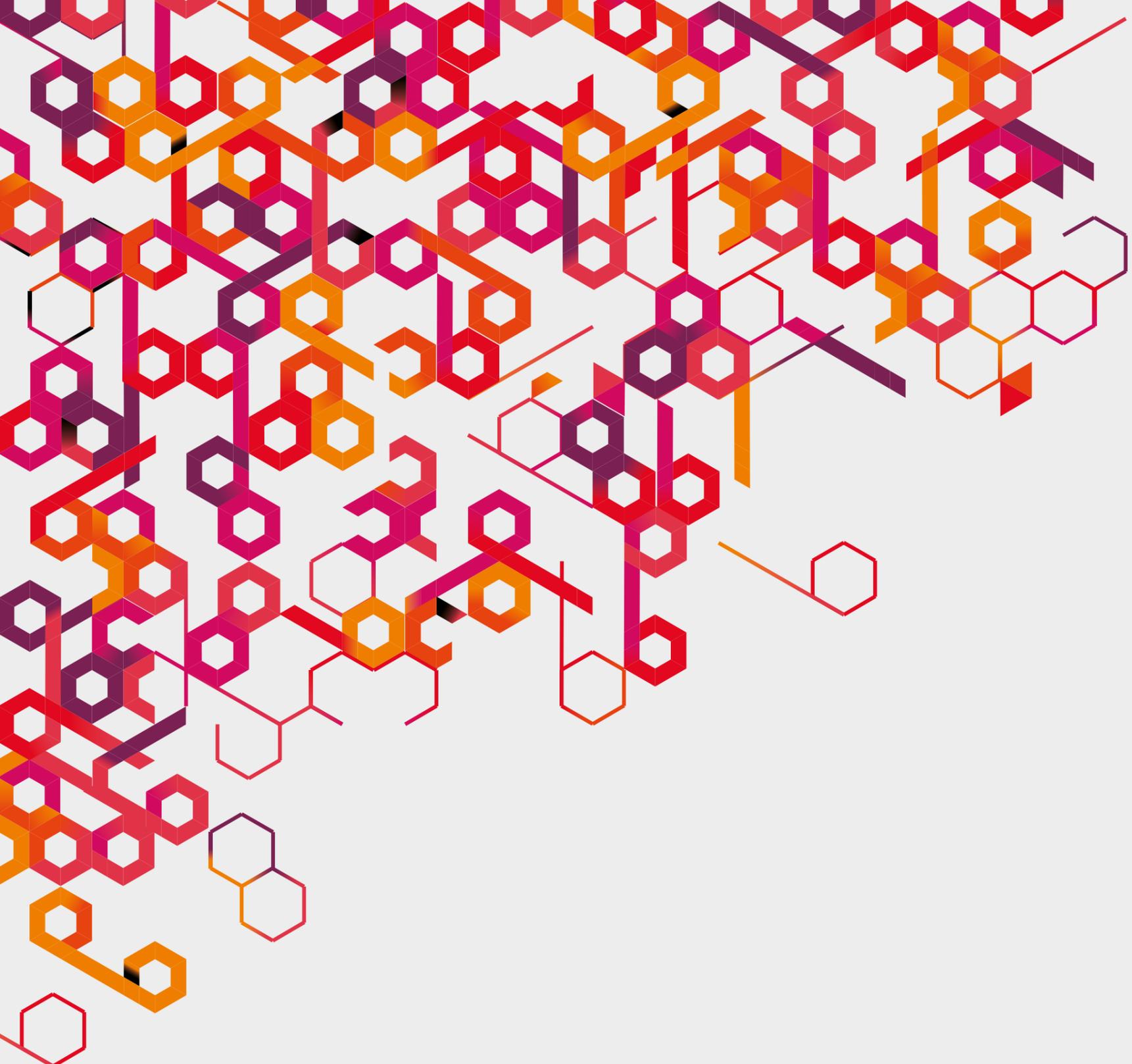
- Planning a report and organising of report content.
- Appropriate use of graphics, diagrams, charts and maps.
- The rules regarding drafting of an MG11 statement.
- Drafting an effective statement
- Avoiding common mistakes.

## Evidential mapping

Level	3
Course code	FA041
Duration	1 day
Group price	£2,250
Seat price	£425

Accurate and clear mapping is essential when using geographical evidence in an investigation or prosecution. This course has been prepared by Intelligence Analysts who have prepared printed and digital animated maps for Crown Courts and international courts, for cases involving organised crime, terrorism, murder and other serious crime. Instruction is given in the correct use of GIS software, coordinate systems, use of graphics and symbology. Emphasis is made on the most appropriate use of communications data, ANPR, GPS locations and other time-stamped data when it is incorporated into maps. Advice is given on layout, content and arrangements of the elements that go into making a clear and understandable representation of the geographic aspects of the evidence.





## Radio Frequency Propagation Surveys (RFPS)

# Radio Frequency Propagation Surveys (RFPS)

Forensic Radio Frequency Propagation Surveys (RFPS) add empirical evidence of the coverage provided by cells used by subject phones in a case. Our RF survey courses range from simple overview sessions up to week-long, City & Guilds accredited programmes, backed up by our best-selling book, Forensic Radio Survey Techniques for Cell Site Analysis (Joseph Hoy, Wiley, 2015).

## RF survey overview

Level	1
Course code	FA019
Duration	1 day
Group price	£2,250
Seat price	£425

This course explains the basic workings of a mobile network, outlines the various types of survey techniques that are employed, and provides an insight into how RFPS evidence can strengthen cases that use comms data.

## RFPS practical

Level	2
Course code	FA020
Duration	5 days
Group price	£11,250
Seat price	£2,125

A less technical counterpart to FA014, this course provides a basic grounding in the theory of RFPS before concentrating on the practical aspects of conducting surveys. It can be delivered either as preparation for FA014, allowing entrants to RFPS work to gain experience of the techniques without delving too deeply into the theory; or it can be used as a second week to the 'experienced practitioner' course, giving attendees the opportunity to practise survey techniques and report writing for several different types of scenario.

## LIMA Cell Monitor training

Level	3
Course code	FA007
Duration	2 days
Group price	£4,500
Seat price	£850

The LIMA Cell Monitor is a purpose-built RF survey device with a small form factor, providing accurate location and coverage information on cell towers and Wi-Fi SSIDs. This course provides instruction in how to configure and operate LIMA Cell Monitor, how to collect RF survey field data, and manage data upload. Guidance is also provided in troubleshooting and maintaining LIMA Cell Monitor.

## RFPS

Level	3
Course code	FA014
Duration	5 days
Group price	£11,250
Seat price	£2,125

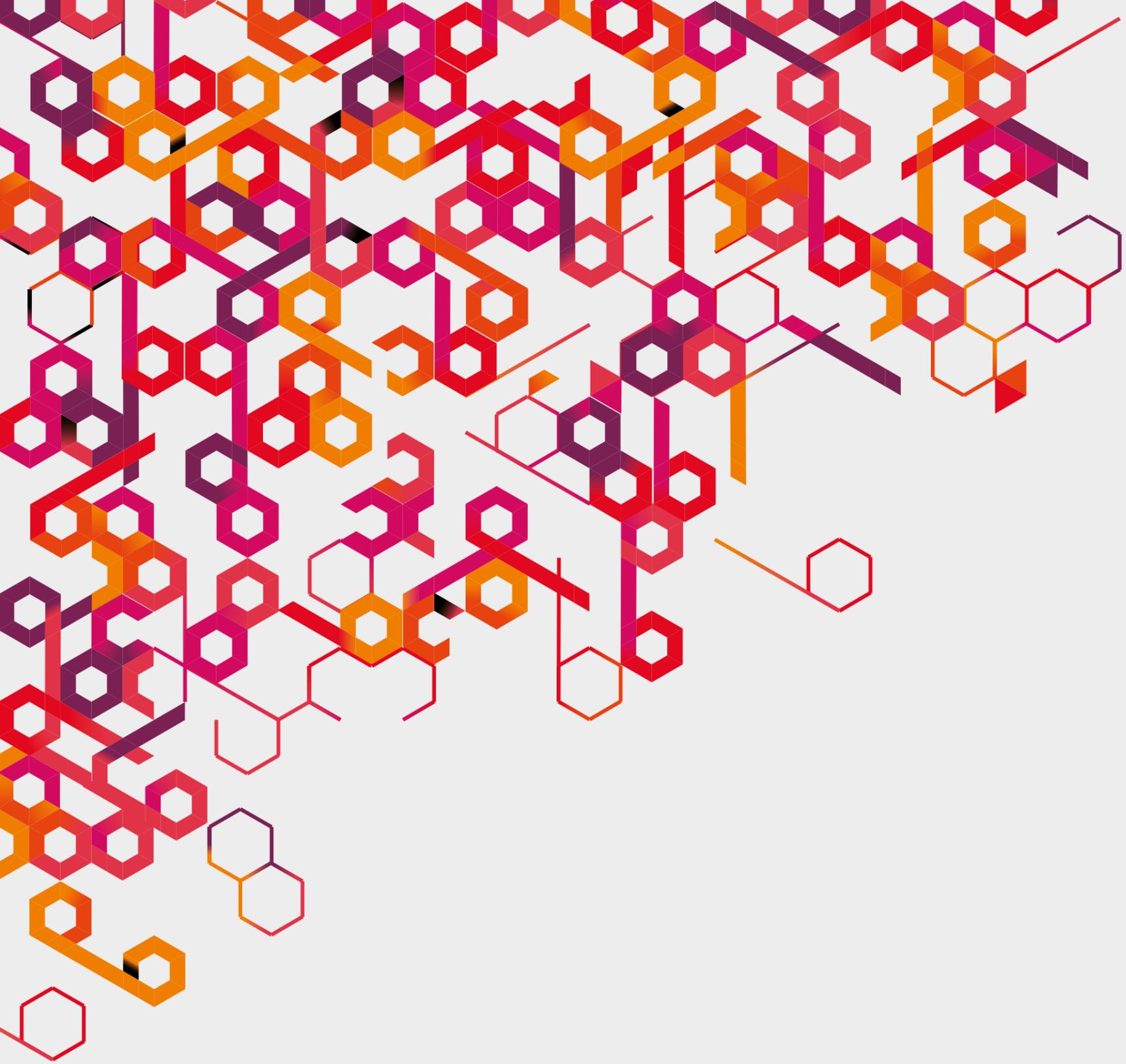
Follow-on training for experienced RFPS engineers who have gained experience of undertaking surveys and now wish to get a more technical understanding of this topic. In-depth overviews of radio technologies, cellular systems and the operation of radio cells are provided, along with detailed examinations of survey techniques and survey devices. Successful completion of the course provides a City & Guilds qualification in RFPS. City & Guilds Accredited.

## RFPS follow-on training

Level	3
Course code	FA023
Duration	1 day
Group price	£2,250
Seat price	£425

A unique opportunity to spend the day with an experienced Radio Frequency Propagation Surveys (RFPS) surveyor to discuss survey techniques, equipment issues, report writing and other complex topics in a focused one-to-one setting.





Software

# Software

CSAS and CDAN Nexus are Forensic Analytics' industry-leading software solutions, and our range of training courses in both applications provides detailed instruction in the use of the tools. Course options range from introductory to advanced, and help users explore more features of CSAS than can be covered in initial sessions, and further develop their knowledge. Completion of CSAS or CDAN training results in certified user status for these tools.

## CDAN Nexus e-learning for basic users



Level	1
Course code	FA055
Duration	At student's own pace
Seat price	£200

This training course provides instruction in the use of CDAN Nexus for new users.

CDAN stands for Communications Data Automated Normalisation and is a central component of the Forensic Analytics data analysis suite. Nexus is the web-based user interface for CDAN. CDAN Nexus can be deployed between a Law Enforcement Agency's disclosure system and the consumers of comms data (analysts and Investigators) to automatically process comms data evidence for them to use.

## CSAS for Investigators

Level	1
Course code	FA035
Duration	2 days
Group price	£4,500
Seat price	£850

This course is suitable for Investigators working with communications data, whether they have experience or not. Delegates will receive instruction on disclosure of communications data, as well as detailed instruction on the use of the features of the CSAS application. Instructors will demonstrate case studies in order to fully convey the utility of CSAS. Course aims: to provide participants with a complete overview of CSAS to enable them to use the software to its full potential in an investigative environment.

The case study webinar elements of this course are run by experienced Intelligence Analysts with backgrounds in criminal investigation. Forensic Analytics trainers have extensive experience of cell site analysis, forensic report writing and presenting reports in court as cell site expert witnesses.

## CSAS bootcamp

Level	1
Course code	FA004
Duration	1 day
Group price	£2,250
Seat price	£425

Provides an in-depth overview of CSAS Desktop and introduces all modules and features. Users have plenty of opportunities to get hands-on practice with CSAS, using anonymised but real data to gain a thorough understanding of the key operations.

## CSAS v2 e-learning

Level	1
Course code	FA046
Duration	At student's own pace
Seat price	£200

This course has been designed for delivery 100% online and at your own pace. Take your time to go through the modules and work with real data using CSAS. You can complete the course using your own copy of CSAS, or we can provide remote access to an online CSAS workspace.

## CSAS advanced user

Level	3
Course code	FA005
Duration	3 full days/5 half days
Group price	£6,750
Seat price	£1,275

Options: 3 days 09:00 to 17:00; or 4 mornings, 09:00 to 13:00

This training course gives experienced CSAS users the opportunity to gain an understanding of the deeper functionality of the system – from improving their understanding of the parsing/cleansing process, to making better use of CSAS Mapping and Analytics, through to being able to recommend the best configurations for CSAS to their IT support team.

“I wasn't sure what to expect with this being delivered virtually but I thought the training was excellent. It was engaging, informative and kept everyone interested.”

CSAS online training attendee

## CSAS version 3

CSAS has been transformed, with a rebuilt application that will revolutionise the way you process and analyse Law Enforcement data. In tandem with the rollout of version 3 to all customers, we present a new series of e-learning courses designed to bring you up to speed in all aspects of the software.

### CSAS v3 e-learning Level one



Level	1
Course code	FA056
Duration	At student's own pace
Seat price	£200

### CSAS v3 e-learning Level two

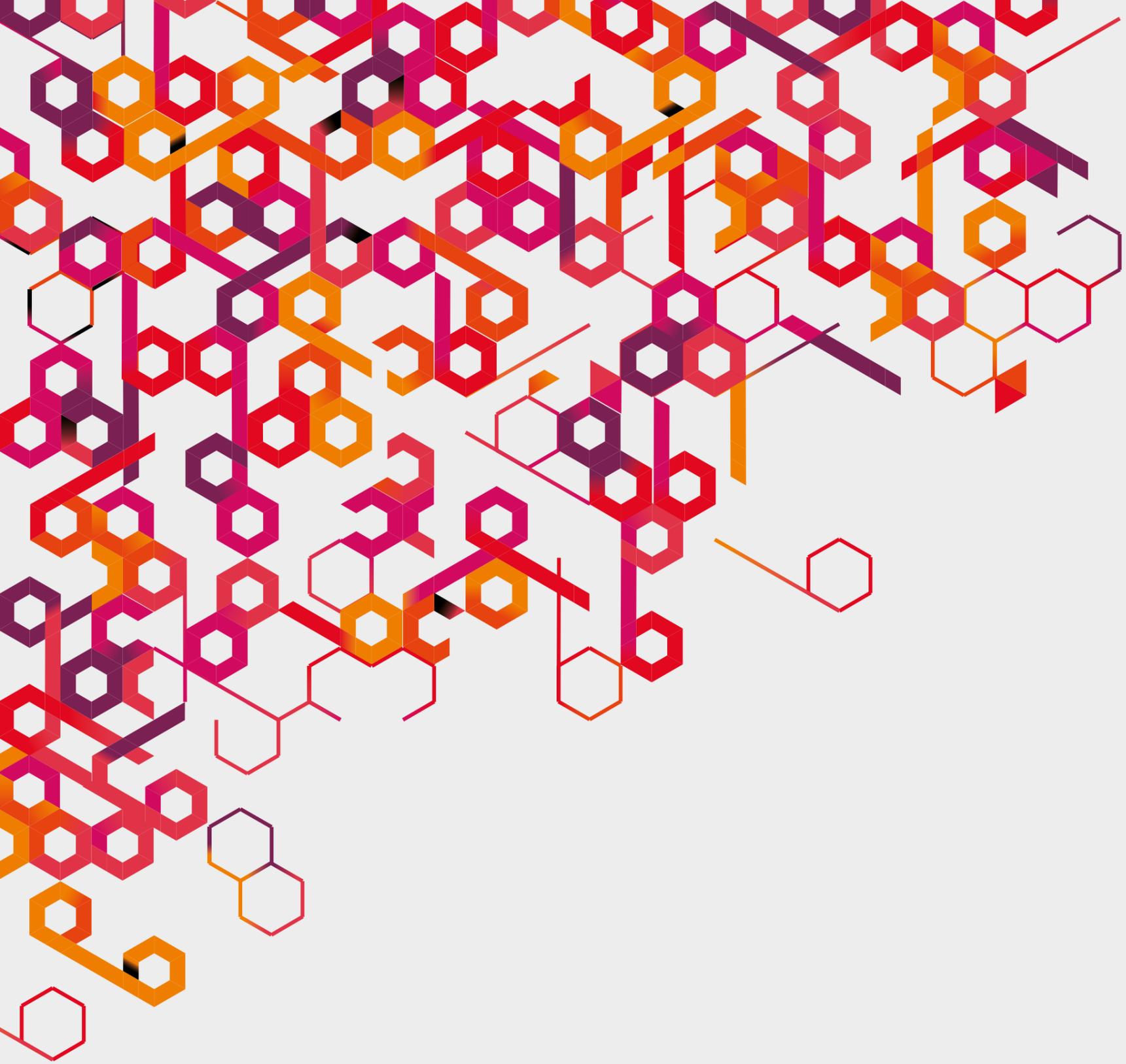


Level	2
Course code	FA057
Duration	At student's own pace
Seat price	£200

### CSAS v3 e-learning Level three



Level	3
Course code	FA058
Duration	At student's own pace
Seat price	£200



**Supplementary information**

## Meet our trainers

Among our trainers' profiles, the word that keeps coming up is 'experience'. It's not just about the number of years spent in a job – although many of our trainers have dedicated decades to their professions – it is also about the diversity of their interests and specialisms that keeps our courses current, engaging and, most importantly, useful.



**Andrew  
Fahey**

Andrew brings years of call data experience to our training team. He project managed the development of courtroom software that enables live analysis and mapping of call data for a United Nations-affiliated International Criminal Tribunal, and worked for many years with the Metropolitan Police Service on serious and organised crime and terrorism investigations. Andrew has an MSc in Crime and Criminal Justice Studies.



**Jenna  
Holloway**

Jenna worked as an Analyst at South Yorkshire Police and the Yorkshire and the Humber Regional Organised Crime Unit for 11 years. Jenna's area of expertise is telecoms analysis in the live time crime in action environment where she worked quickly and diligently to contribute to the disruption and dismantling of organised crime groups impacting across the region. Jenna is a qualified teacher in post compulsory education and trained colleagues throughout her career within law enforcement.



**Gray  
Blattner**

During Gray's 20-year career in the mobile network sector, he has managed myriad training initiatives, including the design and development of training programmes, and in-person and digital learning solutions for over 40 successive global learning product releases. Gray's understanding of highly competitive marketplaces and how to demonstrably increase training delivery volumes brings valuable insight to our training courses.



**Dave  
Cutts**

Dave is a highly experienced telecoms engineer. He helped to build and maintain some of the UK's major cellular networks when working for Vodafone and T-Mobile. Dave was also the law enforcement liaison engineer at T-Mobile before moving to the Metropolitan Police as their in-house cell site expert.



**Mick  
Atkinson**

Mick brings a vast amount of experience to the team. A former senior police officer, he has been the National Policing Communications Data Capabilities Coordinator for the past eight years and led for National Policing on the implementation of the Investigatory Powers Act. Mick's background as a senior investigating officer, his knowledge around digital investigations and his role as a key influencer, provides Forensic Analytics with additional leadership in the delivery of our strategic programmes.



**Darran  
Fletcher**

Darran has considerable experience in surveillance – both human and technical. A former police officer of 30 years standing, he held various roles, including a secondment to UK Immigration Service where he conducted overseas operations. In 2013, Darran became Nottinghamshire Police's cell site specialist, helping the force to remain at the vanguard of this highly important area of digital forensics. He was also a member of the RF Development & User Group.



**Susie  
Baldison**

Susie is our evidential telecoms analysis expert. She spent 11 years as an Intelligence Analyst, and then Senior Analyst, for North Yorkshire Police where she was also the CSAS Super User. Susie worked on everything from local level crime to larger scale conspiracies and live time investigations, often producing evidential exhibits for court. She was awarded four Judges' Commendations along with a Chief Constables' Commendation for investigations where her telecoms analysis was pivotal in proving the case. Susie has a Masters in Criminology.



**Paul  
Kilby**

Paul is our telecoms consultant, trainer and expert witness in cellular systems. As a cell site expert, he is proficient in the use of phone records and GPRS billing data to locate handsets at critical times, producing analysis, reports, and exhibits and presenting these in court. Paul completed his MBA at Cranfield University School of Management and in his spare time is working on his doctoral thesis: 'Forensic use of Mobile Network GPRS Billing Records'.



**Simon  
Butterworth**

Simon is a highly experienced intelligence analyst. He spent over 30 years at community, force, regional, national and international levels. He was National Senior Analyst for Counter Terrorism and worked on major investigations, including the two IRA bombings of Manchester, and the Hillsborough Investigation as Principal Analyst. Simon is currently providing intelligence and analytical training to Law Enforcement within the United Kingdom, Middle East and Balkans.



**Will  
Metters**

Will has almost twenty years' Law Enforcement experience, with the last 10 as Technical Lead for the NPCC Data Communications Group Futures Team. He has extensive knowledge of specialist products, such as encrypted communication platforms, call spoofing, and stealth phones. His DCG Futures work involved regular contact with the UK Home Office, International Law Enforcement organisations and Telecommunications Operators.



**Joe  
Hoy**

Co-founder of Forensic Analytics, Joe is a highly respected digital forensics expert with a background in telecoms engineering, training and cell site analysis. He has many years' experience across all aspects of this sector, has often been an expert witness and was a member of the UK Forensic Regulator's working group for cell site analysis.



**Martin  
Griffiths**

Co-founder of Forensic Analytics, Martin's background is in RF engineering and the RAF. He has worked extensively as a telecoms and sales trainer, and also as a cell site analyst and expert witness for prosecution and defence clients in many complex and high-profile cases. Martin is a full professional member of The Chartered Society of Forensic Sciences.

# Testimonials

---

The feedback from our training attendees is testament to the energy and clarity that our trainers bring to their subjects. We're very proud of the comments from those who take our courses and we appreciate their mutual enthusiasm.

"Prior to joining the Police in 2006, I was an electronics/telecommunications engineer for 19 years. This course is great and really affirms... the knowledge that we take for granted every day... along with lots of great new information."

CDR processing and interpretation attendee

"As a first time Analyst, you made everything easy to follow and explained something that is complicated in a way that I could follow and understand."

CDR processing and interpretation attendee

"I found it very useful, as you were able to give a more structured reasoning behind some of the rules and processes we use. This has prepared me for the inevitable increase in VoIP!"

Next generation comms data analysis training attendee

"Thank you (and your colleagues) for delivering the training. There were some really good points that I haven't considered before so it's good to be able to take something away that I can use day to day."

Report writing and dissemination training attendee

"I just wanted to say thank you, and I have genuinely learned loads from this course. I spent a good few years away from comms data so I really needed some input around GPRS data etc I have never felt bored, out of my depth and have been engaged throughout."

Next generation comms data analysis live online attendee

"All the lecturers were fantastic. VERY knowledgeable, enjoyable, went at an excellent pace and easy to understand. Paul was excellent, the theory is hard to understand, but he phrased things in a way that was easy to understand – in fact, all [the] trainers did!"

Next generation (with Courtroom skills and CSAS refresher training) attendee

"Thanks very much for this training, I thought it was really well delivered and useful, especially as I work on county lines jobs quite regularly, it will make a big difference."

CSAS for Investigators attendee

"Simon was a great trainer, keeping the content engaging with his previous experience. I have learnt a lot and will definitely use the knowledge I learnt on a day-to-day basis!"

Intelligence Analysis attendee

"I have to say that your handling was second to none... You led through the ropes efficiently and whenever I had a question you were there within minutes to support me."

CSAS vs E-learning attendee

"Please can you pass on my thanks to Jenna and Andrew. I wasn't sure what to expect with this being delivered virtually but I thought the training was excellent. It was engaging, informative and kept everyone interested."

CSAS for Investigators online attendee

"I just wanted to say thank you for the training. I've done quite a few online courses since joining my new team and even though this wasn't all new it was definitely the most engaging online course I've been on. I particularly enjoyed the scenarios in the webinars."

CSAS for Investigators attendee

"My team have several experienced users and a couple who are just starting. Today was great for those who have no experience but also the experienced ones are learning functions that they were not aware of. Great to get my team to the same level. Also, the online format and remote CSAS is a brilliant way of learning."

Advanced CSAS attendee

"CSAS is the first and only software of this type that we are using. We chose CSAS as we attended the CDR processing and interpretation course, which was fantastic. The trainer was very thorough and tailored the course to our Manx data as well as covering UK providers. CSAS was demonstrated to us, and it solved all of the problems that we were facing in terms of analysis and mapping CDR data. When we were testing the software, the developers made every effort to ensure that the software could process CDRs from Manx providers."

CDR processing and interpretation attendee

# Practical questions answered

---

We are happy to discuss any aspect of our training or courses you are interested in. In the meantime, we've addressed some practical questions here that you might have before booking.

## **When do the courses take place?**

Our most popular courses are scheduled at regular intervals throughout the year. Please visit the course schedule page on our website to find available dates, register your interest or book; or contact us by phone or email. All courses are available to book on dates convenient to you.

Contact us at [training@forensicanalytics.co.uk](mailto:training@forensicanalytics.co.uk) or on 0800 158 3830.

## **How many people can take part in a group course?**

Our group courses usually cater for between six and twelve delegates. However, if your group is larger or smaller, we can discuss the best way to run the course for you.

## **Is there a set rate for an individual taking a one-day open course?**

Open courses cost £425 + VAT per person, per day.

## **Is there a set rate for group courses?**

The group rate for closed courses is £2,250 + VAT per day. The group rate applies for groups of six to twelve delegates. Expenses will be added for our travel and accommodation, if necessary.

## **Do you offer discounts?**

You can book a course exclusive to your organisation, or make savings by joining up with other organisations who need the same course. We compare diaries with all interested clients (with your consent), and agree dates that suit everyone, and prices that spread the cost between you.

Discounts are offered for bookings involving multiple delegates or multiple dates. Promotional discounts are also occasionally offered – contact us for more information. Please note: to keep our prices down overall, we provide printed manuals as an optional extra charged at cost price – just ask a member of our team when booking your course.

## **What is required for online learning?**

You will need access to one or some of the following apps: Microsoft Teams and Office apps. If you don't have access to CSAS, we can provide you with remote access to our online version of CSAS. For e-learning courses, you will be provided with log-in details to allow you to access courses remotely.

## **How long does it take to book onto a course and what information is needed?**

In order to book on to a course, we typically require a purchase Order (PO) from your accounts or procurement department, and a completed booking form. Instead of a PO, we also accept direct payment via credit/debit card, where your organisation permits this. Once a PO or payment has been received, and the booking form provided, we can register you immediately.

## **What security and vetting procedures need to be considered?**

All FA trainers are Security Vetted to NPPV Level 3 or SC vetted. We will work with your organisation to ensure that your internal security rules are followed.

## **Do you arrange one-to-one sessions?**

A number of our training courses are available as one-to-one mentoring sessions. Please get in touch with us to discuss this further.

## **Does a course have to be delivered as a series of full days in the classroom?**

Not at all. If you decide to receive a course delivered remotely over teams, we can break the delivery down into a series of half day deliveries, to enable you to spend time in the afternoons on your day job.



**Enquiries & bookings**

+44 800 158 3830 | [training@forensicanalytics.co.uk](mailto:training@forensicanalytics.co.uk)

