Introduction: The Forensic Science Forum

The aim of the forensic science forum under the auspices of the ACFE SA is to standardise and regulate scientific methodologies employed in the course of forensic investigations, which are carried out in conjunction with criminal or civil legislation. Such investigations include almost all disciplines and practices involved.

It is instrumental to lead the way in setting standards in all the disciplines of forensics applied during any given investigation and although there are well known and international standards in most of the disciplines, some changes may be required to address the situation in South Africa and Africa in the context of our own environments and applicable legislation and/or legal systems and frameworks.

Forensic scientists and criminal investigators need to be guided with acceptable standards and procedures for carrying out such examinations. Although the ACFE refers to “certified fraud examiners” it recognises the fact that a strong association exists with forensic examiners and practitioners. All forensic disciplines will accordingly be included in the Forensic Science forum.

The ACFE SA Chapter: Background

The need to raise the standard of fraud examination in South Africa and for a professional body which was not limited to a specific profession such as accounting or law resulted in the establishment of a local chapter with the mission to provide a community environment in which local forensic examination practitioners can associate. Local membership provides a number of benefits including: a network of experienced professionals; a training framework for practitioners with “how to” guidance, technical updates and ethical standards; regular discussion forums on issues relevant to the local environment; annual workshops on fraud examinations; and a video library with case studies. This chapter is a collection of individuals in South Africa from all industries and professionals, who all have a single goal in mind; the reduction of white-collar crime in South Africa.

ACFE Professional Standards - www.acfesa.co.za

Preamble of the ACFE SA
The Association of Certified Fraud Examiners is an association of professionals committed to performing at the highest level of ethical conduct. Members of the Association pledge themselves to act with integrity and to perform their work in a professional manner.

Members have a professional responsibility to their clients, to the public interest and each other; a responsibility that requires subordinating self-interest to the interests of those served.

These standards express basic principles of ethical behaviour to guide members in the fulfilling of their duties and obligations. By following these standards, all Certified Fraud Examiners shall be expected, and all Associate members shall strive to demonstrate their commitment to excellence in service and professional conduct.

II. Applicability of Code

The CFE Code of Professional Standards shall apply to all members and all Associate members of the Association of Certified Fraud Examiners. The use of the word “member” or “members” in this Code shall refer to Associate members as well as regular members of the Association of Certified Fraud Examiners.

III. Standards of Professional Conduct

A. Integrity and Objectivity

1. Members shall conduct themselves with integrity, knowing that public trust is founded on integrity. Members shall not sacrifice integrity to serve the client, their employer or the public interest.

2. Prior to accepting the fraud examination, members shall investigate for potential conflicts of interest. Members shall disclose any potential conflicts of interest to prospective clients who retain them or their employer.

3. Members shall maintain objectivity in discharging their professional responsibilities within the scope of the engagement.

4. Members shall not commit discreditable acts, and shall always conduct themselves in the best interests of the reputation of the profession.

5. Members shall not knowingly make a false statement when testifying in a court of law or other dispute resolution forum. Members shall comply with lawful orders of the courts or other dispute resolution bodies. Members shall not commit criminal acts or knowingly induce others to do so.

B. Professional Competence

1. Members shall be competent and shall not accept assignments where this competence is lacking. In some circumstances, it may be possible to meet the requirement for professional competence by use of consultation or referral.

2. Members shall maintain the minimum program of continuing professional education required by the Association of Certified Fraud Examiners. A commitment to professionalism combining education and experience shall continue throughout the member’s professional career. Members shall continually strive to increase the competence and effectiveness of their professional services.
C. Due Professional Care

1. Members shall exercise due professional care in the performance of their services. Due professional care requires diligence, critical analysis and professional scepticism in discharging professional responsibilities.

2. Conclusions shall be supported with evidence that is relevant, competent and sufficient.

3. Members' professional services shall be adequately planned. Planning controls the performance of a fraud examination from inception through completion and involves developing strategies and objectives for performing the services.

4. Work performed by assistants on a fraud examination shall be adequately supervised. The extent of supervision required varies depending on the complexities of the work and the qualifications of the assistants.

D. Understanding with Client or Employer

1. At the beginning of a fraud examination, members shall reach an understanding with those retaining them (client or employer) about the scope and limitations of the fraud examination and the responsibilities of all parties involved.

2. Whenever the scope or limitations of a fraud examination or the responsibilities of the parties change significantly, a new understanding shall be reached with the client or employer.

E. Communication with Client or Employer

1. Members shall communicate to those who retained them (client or employer) significant findings made during the normal course of the fraud examination.

F. Confidentiality

1. Members shall not disclose confidential or privileged information obtained during the course of the fraud examination without the express permission of proper authority or order of a court. This requirement does not preclude professional practice or investigative body reviews as long as the reviewing organization agrees to abide by the confidentiality restrictions.

IV. Standards of Examination

A. Fraud Examinations

1. Fraud examinations shall be conducted in a legal, professional and thorough manner. The fraud examiner’s objective shall be to obtain evidence and information that is complete, reliable and relevant.

2. Members shall establish predication and scope priorities at the outset of a fraud examination and continuously re-evaluate them as the examination proceeds. Members shall strive for efficiency in their examination.

3. Members shall be alert to the possibility of conjecture, unsubstantiated opinion and bias of witnesses and others. Members shall consider both exculpatory and inculpatory evidence.
B. Evidence

1. Members shall endeavour to establish effective control and management procedures for documents. Members shall be cognizant of the chain of custody including origin, possession and disposition of relevant evidence and material. Members shall strive to preserve the integrity of relevant evidence and material.

2. Members’ work product may vary with the circumstances of each fraud examination. The extent of documentation shall be subject to the needs and objectives of the client or employer.

V. Standards of Reporting

A. General

1. Members’ reports may be oral or written, including fact witness and/or expert witness testimony, and may take many different forms. There is no single structure or format that is prescribed for a member’s report; however, the report should not be misleading.

B. Report Content

1. Members’ reports shall contain only information based on data that are sufficient and relevant to support the facts, conclusions, opinions and/or recommendations related to the fraud examination. The report shall be confined to subject matter, principles and methodologies within the member’s area of knowledge, skill, experience, training or education.

2. No opinion shall be expressed regarding the legal guilt or innocence of any person or party.

Forensic Science Forum

The list of forensic science standards guidelines needs to be dictated to by discipline specific specialists. In order to assist members of the science forum to implement standards, qualification and ethics, it would be beneficial to standardise the input required in order to build the framework across all disciplines.
| Forensic science discipline/title | Electronic Counter Measure Investigations (ECMI) |
|--------------------------------|
| Compiled obo the ACFE SA by: | Riaan Bellingan  
Email: riaan@acsolutions.co.za  
Andre Oosthuizen  
Email: andre@acsolutions.co.za |
| Describe forensic science discipline | • Protection of Intellectual Property  
• Electronic Counter Measure Investigations (ECMI) “Debugging” |
| Forensic Science Application (Nationally and Internationally) | National and International |
| Purpose of the forensic science discipline | Due to the advancement of Global Corporate Competitiveness, there is a growing need amongst Corporate Institutions, especially at Executive Staff level, to protect all forms of Communication. It is of interest to note that more than 90% of the top listed Corporates in South Africa conduct a REGULAR programme of Electronic Countermeasures Investigation (ECMI) “Debugging”. |

*Criminalistics - Please describe legislation/common law applicable to your specific forensic science discipline:*

An Investigator must comply with all ACFE SA chapter policies and directions and all applicable South Africa laws, regulations and guidelines, including, but not limited to:

- Consumer Protection Act 68 of 2008
- Electronic Communications and Transactions Act 25 of 2002
- Common Law - South Africa
- Proceeds of Crime Act 2002
- Prevention and Combating of Corrupt Activities Act 12 of 2004
➢ Criminal Procedure Act, Act 51 of 1977
➢ Prevention of Organised Crime Amendment Act 24 of 1999
➢ Prevention of Organised Crime Second Amendment Act 38 of 1999
➢ Promotion of Access to Information Act 2 of 2000
➢ Promotion of Access to Information Amendment Act 54 of 2002
➢ Regulation of Interception of Communications and Provision of Communication-related Information Act 70 of 2002

Ethics in Administration - *Please indicate existing national and international ethics for the forensic science discipline if not aligned with the ACFE Code of ethics and standards above:*

The primary goal of an ECMI (Electronic Counter Measure Investigations) investigator is the protection of Company Intellectual Property and sensitive information from theft and illegal dissemination.

Investigators have high visibility within the eyes of both internal and external clients and thus should always display appropriate personal and corporate values and behave in accordance with our strict behavioural code.

The code reflects the highest possible standards applicable to investigators and embraces the principles of personal integrity and professionalism.

As an ECMI Investigator you expressly agree to the following:

➢ To behave honestly and with integrity
➢ To diligently execute your job description
➢ To ensure prompt and efficient settlement of valid claims
➢ To execute any function or instruction only by way of lawful interactions and/or conduct
➢ To promote and uphold the good corporate reputation of all stakeholders
➢ To treat both internal and external clients with professionalism and respect
➢ To never take improper advantage of inexperience, lack of education, youth, lack of sophistication, language barrier or ill health of any client
➢ To disclose and take reasonable steps to avoid any conflict of interest
➢ To not provide false or misleading information in response to a request for information from any of the key stakeholders
➢ To promote public confidence in the organization and all its stakeholders through fair and conscientious dealings refraining from any fraud, deceit, misrepresentation, willful non-disclosure, undue influence or other harmful practice
➢ To never seek personal gain or make any secret profit, acquire any financial interest or benefit in any matter entrusted to you.
Compliance with the code

As an Investigator it is hereby agreed that the reputation and future of the discipline, all stakeholders depend on both technical and ethical excellence. It is not only important that you adhere to the principles expressed in this Code, but also to encourage and support adherence to the code by other Investigators.

You are accordingly also obliged to immediately inform the ACFE of transgressions by other investigators once becoming aware of such misconduct.

Non-compliance with the code

Adherence to this code is compulsory and any transgression will be viewed as gross misconduct resulting in your ACFE membership being terminated.

ACFE

As an Investigator you expressly agree to the following:

➢ To maintain a sound knowledge of the code of conduct, policies and objectives of the ACFE SA Chapter.
➢ To conduct investigations in a manner that will not detract from or damage the reputation of the ACFE SA Chapter or its authorised representatives in any way.
➢ To only collect material relevant to the ECMI investigation purpose. The collection must not involve the commission of a criminal offence or give rise to a civil action.
➢ To not enter any premises unlawfully and must not make any threat, promise or inducement when conducting an investigation.
➢ To avoid any actions which may unreasonably impinge on the privacy or other rights of other people?
➢ To collect and record only information relevant and responsive to the instructions from the client.
➢ To have in place appropriate measures to protect any material collected against loss, unauthorised access, use, modification or disclosure.
➢ To store any material collected in a secure area and separately from other routine administrative information.
➢ To not divulge any information obtained in the course of its instructions to any other person or company without the express written permission of the client he/she represent unless that disclosure is required by law.
➢ To maintain a log of all personnel accessing, using or removing material collected in order to establish an audit trail, including when providing information to interstate employees or sub-contractors. The log must include:
   • reason(s) for disclosure
   • recipient's name and signature
   • issuing officer's name
   • time and date of access
➢ To not directly or indirectly solicit, accept, offer or give a benefit, gratuity, reward, gift, bribe, commission or procurement fee, in connection with any activity associated with providing those services.
➢ To not discriminate against any person on the basis of race, sex, colour, sexual orientation, political allegiance, impairment or other unlawful grounds.
➢ To be subject to random file audit by the ACFE SA Chapter for compliance with this Code and must co-operate fully with access by the ACFE SA Chapter to files and data as required, and answer any queries the ACFE SA Chapter may have in the conduct of an investigation.

ECMI Investigator Education and Training - Please indicate minimum qualification, experience, compliance requirements and operational requirements for the specific forensic science discipline. Training material/modules/qualifications to be specified, if exist.

<table>
<thead>
<tr>
<th>A) KNOWLEDGE AND SKILLS</th>
</tr>
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<tbody>
<tr>
<td><strong>FORMAL EDUCATION</strong></td>
</tr>
<tr>
<td><strong>TECHNICAL/LEGAL CERTIFICATION</strong></td>
</tr>
<tr>
<td><strong>EXPERIENCE</strong></td>
</tr>
</tbody>
</table>

Minimum knowledge and skills - please list the minimum criteria in terms of Formal education, technical and legal certification as well as experience required in the specific forensic science discipline. Note any additional specific special requirements for the specific forensic science discipline.
### B) Competencies

<table>
<thead>
<tr>
<th>Forensic Science Knowledge</th>
<th>Generic Skills</th>
<th>Attitudes</th>
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</thead>
<tbody>
<tr>
<td>Crime scene management</td>
<td>Statistical techniques</td>
<td>Accuracy</td>
</tr>
<tr>
<td>Crime scene investigation</td>
<td>Computing skills</td>
<td>Assertiveness</td>
</tr>
<tr>
<td>Crime scene evidence</td>
<td>Report writing skills</td>
<td>Efficiency</td>
</tr>
<tr>
<td>Location and recovery of trace materials</td>
<td>Oral presentation skills</td>
<td>Honesty</td>
</tr>
<tr>
<td>Forensic analysis techniques</td>
<td>Information retrieval skills</td>
<td>Professionalism</td>
</tr>
<tr>
<td>Instrumental methods of analysis</td>
<td>Problem-solving skills</td>
<td>Self-discipline</td>
</tr>
<tr>
<td>Interpretation of analytical results</td>
<td>Team-working skills</td>
<td>Patience</td>
</tr>
<tr>
<td>Safe working procedures</td>
<td>Time management and organisational skills</td>
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<tr>
<td>Quality assurance</td>
<td>Managing own learning</td>
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<tr>
<td>Planning of casework related experiments</td>
<td>Communication skills</td>
<td></td>
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<tr>
<td>Understanding relevant legal procedures</td>
<td>Conflict management skills</td>
<td></td>
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<tr>
<td>Specific Knowledge to giving evidence (see details on pg 36)</td>
<td>Interviewing skills</td>
<td></td>
</tr>
</tbody>
</table>

**General Practice** - Please describe the general acceptable practice in the specific forensic science discipline - nationally and internationally. Describe practices, procedures, policies, systems and outputs used and required for the specific forensic science discipline.

**GENERAL PRACTICE**

**COMMUNICATION METHOD APPLIED BY AN INVESTIGATOR**

**Verbal**

- Making appointments with clients
- Telephonic liaison with clients
- Face-to-face conversations
Written

- Drafting of ECMI Reports
- E-mail feedback to clients or requesting of documentation

The most regular and complex challenges in the job

- Liaising with external role players
- Diversity of client requirements regarding ECMI requests

Resources utilised by the assessor/investigator to solve problems or make decisions

- Legal counsel
- Company policies and procedures

Planning cycle of the job

Macro (Weekly)

- Finalisation of reports and recommendations
- Obtaining of all relevant information

Micro (Daily)

- Scheduling of appointments with clients
- Physical ECMI
- Drafting of reports

Accountability

Investigator accountability

- Making of appointments
- Physical Investigation
- Maintenance of Technical Equipment

Referral to Line Manager for approval

- Reports and recommendations to clients
Forensic Processes - Please list the applicable and acceptable processes, procedures, instrumentation, tools of trade and/or references used in the specific forensic science discipline

Advanced Corporate Solutions ECMI Procedures and Equipment

Introduction

Due to the advancement of global corporate competitiveness, there is a growing need amongst Corporate Institutions, especially at executive staff levels, to protect all forms of communications.

Communications security encompasses all aspects of communications transmission - oral (spoken), written and data transmission, together with all relevant security techniques intended to achieve maximum possible protection of such transmission. More than 90% of the top listed corporates in South Africa conducts regular programmes of ECMI. Information is a corporate asset and managers and staff have a responsibility to protect it.

Corporate Intelligence is the acquisition of relevant information, the collation, analysis and ultimately the evaluation of such information, aimed at identifying and thus protecting the Corporate from vulnerability to threat. It can also be used as a tool against a company.

This document addresses the practices, procedures, policies, systems, outputs and standards for the following corporate intelligence:

- Different levels of threat (ranging from petty theft, product extortion and fraud to economic espionage).
- Communication Security (to avoid corporate espionage).
- Implementation of corporate intelligence (countering the offensive activities aimed against a Corporate and must be considered essential in the overall security, policy and programme designed and implemented by that Corporate).
- Corporate Intelligence Agency operations albeit “in-house” or “outsourced”, functions both offensively and defensively in achieving optimal security for the Corporate.

Information Gathering

The following are prime sources of information gathering:

Physical Source

The human being, Management, Staff and often Associates - such sources transmit information either intentionally, frequently for personal gain or revenge, or unintentionally “careless talk”. Irrespective, every effort should be taken to employ “the Need to Know” practices.
Non-Physical Source

- Communication Interception.
- Documents (Non-Oral).
- Data/Information Technology (Non-Oral).

Threat

Economic Espionage invariably incurs financial consequence. If successful, its high levels of sophistication, both nationally and internationally frequently incurs considerable consequences to not only corporate survival, but also Global and National economies.

Regrettably, modern technological advances continually increase the sophistication of such espionage consequently requiring considerable advancement in Security Technology, Techniques and Training, Awareness and Implementation, thus an ever-greater need for the highest levels of Corporate Intelligence and Pro-active Security Responses.

Risk Analysis

Risk analysis is the application of techniques employed to identify risks and the potential effect of such risk to the personnel and organisation being protected.

Threat Assessment

Threat assessment is the determination of the imminence and level of such threat to either personnel or elements of the organisation. In the event of such threats, as detailed previously, a Corporate requires formulated policies and contingency plans to guide the protective response of the Corporate.

The overall protective strategy of the Corporate is a basic security policy decision achieved by Standing Operational Procedures (SOPs) designed and implemented to attain maximum possible security for the Corporate in any given environment.

The following threat assessments are generally examined:

Potential Corporate Targets: “Who?”

- Listed Companies
- Financial Institutions
- Legal Practices
- The Mining Industry
- The Pharmaceutical Industry
Tender Boards/Committees

Aim: “Why”?

- Intellectual Value
- Acquisitions and Merges
- Share Values
- Strategic Planning for Business or Competitive Information
- Conflict of Interest amongst Directors and Senior Management/Personnel
- Recruitment (Head hunting) of Specialist or highly knowledgeable Personnel

Potential areas of vulnerability: “Where?”

**Internal**

- Offices of Directors
- Offices of Executive Management
- Boardrooms
- Specialist staff Work Stations
- All Conference- and associated Facilities’ locations
- Directors’ and Executive Management’s vehicles

**External**

- The Residences of Directors, Executive Management and identified Personnel employed on highly sensitive tasks.
- Specific Location Assignment.
- Selected Offices and Locations of persons closely associated with Contracts, Acquisitions, Legal and Financial Information/Activities, contracted to conduct business on behalf of the Corporate.

**COMMUNICATION SECURITY PROTECTION**

**INTERCEPTION TECHNIQUES: “How?”**

*The following technical and electronic instruments are most commonly used in the interception of verbal communication:*
Microphones (Hardwire Eavesdropping)

The “Hardwire Bug” comprises of three elements, namely:

i. the Microphone,
ii. Wire and
iii. Line Drive Amplifier.

The Microphone is normally installed in a non-conspicuous place in the room and is supplied with power by the eavesdropper, via the same wire that carries the Microphone Audio to the eavesdropper. One does not always have to install a Microphone, as use can be made of items in the room, e.g. the Telephone Microphone, Intercom Systems, Television System and Radio Speakers can be adapted.

Radio Transmitters

A Transmitter is one of the most versatile and flexible means of gathering information, and comes in various shapes and sizes.

The ideal type of Transmitter is one as small as possible, having a small signal (low watts), so that it is difficult to detect. Requiring the smallest of power sources and using the highest frequency possible, enables the use of a shorter antenna (i.e. VHF - UHF).

Carrier Current Device (Baby Sitter)

This Transmitter is connected into the electrical system of the target building. The Baby Sitter can be installed anywhere along the electrical system of the target building, but must be on the same phase. This makes it difficult to detect the eavesdropper.

The Transmitter can be disguised in various things in the room without being detected, for example as a Plug Adapter. Once plugged into main sockets, the Transmitter will continuously transmit conversations using the power from the mains - to a receiver.

TELEPHONE ANALYSING

Many people are under the impression that it is only their telephone calls that can be monitored, not knowing that what they say after the telephone is “hung up”, may also be overheard via the same Telephone Instrument. This is possible by using any one of the Microphones in the Telephone.

Whatever ones needs, Telephone Transmitters provide the ability to discreetly and automatically transmit all telephone conversations. These are easily installed either on the Telephone Wire, in the
Telephone Socket or within the Instrument itself. Telephone users will have absolutely no indication of their presence.

**Characteristics of Analogue Lines**

- Information represented by constantly and smoothly varying voltage, current, amplitude, or frequency of waves and pulses.
- Do not switch suddenly between levels.
- The transmitter signal varies in relation to, and is analogous (similar) to the original signal.
- With an Amplifier or a Telephone Instrument a person can listen to the audio on the line.

**Characteristics of Digital Lines**

- In Audio, signals characterised by a sequence of unique pulses or digital numbers corresponding to a particular value of the Audio Signal at a specific moment of time, must be converted to Analogue to be intelligible to humans.
- With a voice logger installed, Digital Telephones can be tapped on a limited basis.
- The voice logger must be operated by one person with a security clearance. The room must be locked with a security lock and proper access control measures in place.

**Telephone Threat**

- The Telephone Transmitter is in the Telephone or Online and uses Telephone Power.
- Audio Transmitter in Telephone or room, Self-Powered.
- Telephone Notification.
- Hidden Microphone in Telephone or Online in the Office.
- Room and Telephone Listening Device in Telephone or Online in the Office.
- Telephone Tap Online.

**Protection of communication - counter electronic procedures**

*In conducting a Counter Measures Programme the following services are implemented:*

- A comprehensive Threat Assessment will be made for all designated target areas and a plan developed to best implement the ECMI.
- A full Radio Frequency Spectrum Analysis will be performed to check for hidden Room Transmitters and Telephone connected Transmitters.
- Electrical Power Lines and other Lines will be inspected with specialised equipment to locate Line “Carrier Current Device”, “VLF Transmitters”.
- A thorough Physical Search will be conducted in all designated target areas.
• A complete Electronic Analysis and Physical Inspection will be accomplished on all target area Telephones, Incoming Telephones and Incoming Telephone Lines.
• Testing for Active and Passive Devices in respect of Telephones and Intercommunication Systems and Equipment.

INVESTIGATIVE SEARCH FREQUENCY

In attempting to achieve maximum possible security provision ECM, the Investigation should be conducted within the following programmed frequency:

• Overall Facilities Sweep: Conducted Twice Yearly via a full Physical Sweep of all Offices and Facilities and to include Marking/De-marking of Wire Cables.
• To assist in the identification of Offices and Locations considered to be most vulnerable i.e. Directors’ Offices, Executive Management Offices, Specialist Personnel Offices, Boardrooms, PA Offices etc., these should be identified and given a Threat Rating Identification e.g. “Threat Level 3”.
• Such Offices and Locations undergo a Weekly Silent Sweep and on a Monthly Basis an Overall Facilities Full Physical Sweep.

ECMI OPERATIONAL CONTROL

Due to the sensitivity, specialisation and security implications of these investigations’ security, control and management should be delegated to “Crime Intelligence Security Personnel” only.

Operational Implementation

ECMI can be implemented in two ways:

1. In-house

Through extensive in-depth research and investigation, it has been determined that in-house implementation is not advisable due to:

• Constant improved technical development of Electronic Surveillance Equipment; thus, increased sophistication of techniques employed by the perpetrators.
• Additional training of personnel to keep up to date with frequently upgraded or new equipment, together with regular continuation training required to achieve and maintain operational efficiency.
• The need to have existing equipment re-calibrated at least annually to maintain operational efficiency. Currently this can only be obtained by returning the equipment to the manufacturers. This service is not available in South Africa, yet.

• When considering the financial implications of implementing the above, together with the considerable expenditure of purchasing specialist equipment and selection and training of personnel, it was found to be non-cost effective. Consequently, it is considered preferable to outsource this service.

2. Outsourcing

*The following should be implemented when outsourcing for ECMI:*

Obtain at least three (3) tender proposals from recognised Specialist Agencies in the field of electronic counter measures. These tenders must be submitted based on a detailed Brief compiled and issued by the Manager Crime Intelligence, and requiring:

- Full Company Background of the Submitting Agency.
- Details of Specialist Qualifications of the Agencies’ personnel undertaking the Investigation.
- Details of the Specialist and Non-Specialist Equipment to be used in conducting the Sweep and Investigation.
- Areas, Locations and Equipment to be investigated.
- Frequency of Sweeps and Investigations.
- Full costing.
- An agreement by the Agency, that “should they be appointed to conduct the investigation, they agree to undergo Vetting and Clearance at their “Own Cost”, as a condition of appointment”.

*Advanced Corporate Solutions* provides an encompassing and thorough Electronic Counter-Measures Investigation (ECMI) using the most advanced and modern equipment and technology available in South Africa and internationally. Only relevant equipment is used in performing different tasks, which could be any of the following:
<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>APPLICATION</th>
<th>COMMENTS</th>
<th>PICTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. RAPTOR RXi</td>
<td>Ultra-fast-scanning counter-surveillance receiver</td>
<td>Visit <a href="http://www.winkelmann.co.uk">www.winkelmann.co.uk</a> for more information</td>
<td><img src="image1.png" alt="Picture 1" /></td>
</tr>
</tbody>
</table>

2. OSCOR 5000 DELUXE

To determine the presence of sophisticated transmitters

Visit [www.reiusa.net](http://www.reiusa.net) for more information

![Picture 2](image2.png)  

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
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<th>COMMENTS</th>
<th>PICTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. CPM 700</td>
<td>Radio Frequency Detector operating in the 25 KHz - 2 GHz Frequency range</td>
<td>Visit <a href="http://www.reiusa.net">www.reiusa.net</a> for more information</td>
<td><img src="image3.png" alt="Picture 3" /></td>
</tr>
<tr>
<td>No.</td>
<td>Device Description</td>
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<td>4.</td>
<td>SCANLOCK ECM 2000</td>
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<tr>
<td></td>
<td>To detect and locate radio microphones rapidly</td>
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<td></td>
<td>Visit <a href="http://www.audiotel-support.com">http://www.audiotel-support.com</a> for more information</td>
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<td>5.</td>
<td>ECMI Advanced Computer Based Spectrum Monitor</td>
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<td></td>
<td>Frequency range between 25MHz and 2GHz</td>
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<td>6.</td>
<td>Orion Non-Linear Junction Evaluator / Super Broom Plus Non-Linear Junction Detector</td>
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<tr>
<td></td>
<td>For detection and pinpointing of electronic devices, hidden and perhaps turned off</td>
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<td></td>
<td>visit <a href="http://www.reiusa.net">www.reiusa.net</a> for more information</td>
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<td>DESCRIPTION</td>
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</table>
| **7. BLOODHOUND** | To test for hidden and live microphones on telephones and lines  
- Cable tracing.  
- Carrier Current device detection.  
- Physical inspection and evaluation of all suspect areas and fixtures. | Visit [www.shearwatertscm.com](http://www.shearwatertscm.com) for more information | ![Bloodhound Image] |
| **8. TALAN DPA-7000** | Telephone and line Analyser | Visit [www.relusa.net](http://www.relusa.net) for more information | ![Talan DPA-7000 Image] |

**TELEPHONE SEARCH:**

Various equipment can be used to check telephones for eavesdropping devices; however, there are none that guarantees surety 100%. Some devices are extremely easy to find via electronic means, while others such as capacitate pick-ups are impossible to detect.

The art of checking telephones relies heavily on knowing as much as possible about the telephone system connected to the search area, and physically checking its entry points.
9. **Equipment used to test Telephones and Lines:**

- High impedance, high gain amplifier to test for audio on the line with the telephone not in use.
- Multi-meter for testing voltage and current.
- Tone set for tracing line.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>APPLICATION</th>
<th>COMMENTS</th>
<th>PICTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>10. VIDEO POLE CAMERA</td>
<td>White LED illumination for color inspection in dark areas</td>
<td>Visit <a href="http://www.reiusa.net">www.reiusa.net</a> for more information</td>
<td><img src="image" alt="Picture" /></td>
</tr>
</tbody>
</table>
OUTPUTS

ALL INVESTIGATIONS ARE CONCLUDED WITH A THOROUGH REPORT TO THE CLIENT, INDICATING:

- Findings of the investigation.
- Printed spectrum analysis of the target areas’ electronic pattern.
- Shortcomings in the client’s physical security measures that can facilitate eavesdropping attempts.
- Identified and potential eavesdropping threats and scenarios.

Interdisciplinary Forensic Science Standards - Please indicate whether national or international standards for your specific forensic science discipline exist. In the absence of any standards, please share your views in terms of minimum standards a company should comply with.

International Standards aligned with the South African Legal and Judiciary systems

Quality Control - How do you maintain exact outcomes in terms of consistency, quality and succession?

Advanced Corporate Solutions’ investigators undertake the following:

- Submit themselves to polygraph tests to affirm that they will not plant any devices on the client’s premises.
- If eavesdropping equipment is found on the client’s premises, our investigators undertake to subject themselves to polygraph testing, in order to substantiate truthfulness in respect of who is responsible for planting the eavesdropping device.
- Allows the client to have all our equipment checked prior to and after the investigation, to ensure that no eavesdropping devices are taken onto the client’s property by our investigators.
- Peer to peer checking, management sign-off and legal professional sign-off

Should any eavesdropping equipment be found, the steps listed below will be followed:

- The device will not be removed.
- In conjunction with the client, Advanced Corporate Solutions will manage the situation to establish the origin of the device.
STANDARDS

These standards and procedures were developed by Advanced Corporate Solutions in response to a need for standards and minimum specifications for forensic scientists and criminal investigators for carrying out examinations in all forensic disciplines. There are 11 standards that sets out the skills, knowledge and understanding of ECMI operations:

1. **OBTAIN AND ESTABLISH INFORMATION ON CLIENTS’ ELECTRONIC COUNTER MEASURES INVESTIGATION REQUIREMENTS**

This unit consists of three elements:

1.1 Respond to clients who require ECMI services
1.2 Record details of clients’ ECMI aims and objectives
1.3 Identify clients’ potential ECMI requirements

1.1 **Performance Criteria: Respond to clients who require ECMI services**

You must be able to:

1. Respond effectively and promptly to clients, using appropriate methods of communication suitable to your clients
2. Confirm the authority and responsibility of the person seeking ECMI services
3. Confirm your understanding of your clients’ requirements
4. Explain and confirm your clients understanding of the scope and limitations of the actions that you and your organisation can take
5. Maintain the security and confidentiality of information relevant to clients and their ECMI objectives

1.2 **Performance Criteria: Record details of clients’ ECMI aims and objectives**

You must be able to:

1. Record details accurately and in a retrievable format
2. Record relevant information sufficient to develop proposals to meet the aims and objectives of clients’ ECMI.
3. Take prompt and appropriate action to deal with identified loopholes of information
4. Maintain the security and confidentiality of information relevant to clients and their security objectives
1.3 Performance Criteria: Identify clients’ potential ECMI Requirements

You must be able to:

1. Liaise with appropriate persons to identify clients’ ECMI requirements
2. Ensure that you have sufficient information to identify clients’ potential ECMI requirements
3. Take account of potential constraints when identifying clients’ ECMI Requirements
4. Provide sufficient details and supporting information to your clients to enable them to make informed decisions about their ECMI requirements
5. Provide clients with advice on the implications of accepting, modifying or rejecting their ECMI
6. Maintain the security and confidentiality of information relevant to your clients and their ECMI objectives

2. **DETERMINE ELECTRONIC COUNTER RISKS TO CLIENTS’ ASSETS**

This unit consists of four elements:

2.1 Identify and evaluate clients’ assets
2.2 Identify and evaluate threats to clients’ assets
2.3 Identify and evaluate electronic counter vulnerabilities in clients’ current security arrangements
2.4 Determine the risks to the clients’ assets

2.1 Performance Criteria: Identify and evaluate clients’ assets

You must be able to:

1. Gather relevant information from different sources sufficiently to assist in identifying and evaluating clients’ assets
2. Collate and take account of all relevant information to support the evaluation of assets
3. Use logical and systematic analysis of information to evaluate clients’ assets
4. Determine the potential impact to your clients through the loss or compromise of identified assets
5. Prioritise the value of identified assets in accordance with service criteria agreed with your clients
6. Evaluate relevant information according to its usefulness
7. Maintain the security and confidentiality of information relevant to your clients’ assets
2.2 Performance Criteria: Identify and evaluate threats to clients’ assets

You must be able to:

1. Gather relevant information from different sources sufficiently to identify and evaluate threats to clients’ assets
2. Collate and take account of all relevant information to support the evaluation of threats, including the sources of threats
3. Use logical and systematic analysis of information to evaluate threats to the security of clients’ assets
4. Categorise possible threats and vulnerabilities on assets and potential security measures
5. Evaluate relevant information to determine its usefulness
6. Maintain the security and confidentiality
7. Offer information relevant to threats to your clients’ assets

2.3 Performance Criteria: Identify and evaluate electronic counter vulnerabilities in clients’ current security arrangements

You must be able to:

1. Gather relevant information from different sources sufficiently to identify and evaluate vulnerabilities in clients’ security arrangements
2. Collate and take account of all relevant information to support the evaluation of vulnerabilities
3. Use logical and systematic analysis of information to identify and evaluate vulnerabilities in clients’ security arrangements
4. Evaluate relevant information according to its usefulness
5. Identify actual and potential electronic counter vulnerabilities in clients’ electronic counter security arrangements
6. Maintain the security and confidentiality of information relevant to the vulnerabilities in your clients’ security arrangements

2.4 Performance Criteria: Determine the risks to the clients’ assets

You must be able to:

1. Take account of sufficient valid information to determine the risks to the protection of clients’ assets
2. Determine the levels of actual and acceptable risk to clients’ assets, based on systematic analysis and evaluation of threats and vulnerabilities

3. Inform clients promptly of situations where there are risks to assets

4. Record information in a suitable and retrievable format

5. Maintain the security and confidentiality of information relevant to risks to clients’ assets

3. **PROPOSE SOLUTIONS TO MEET CLIENTS’ ELECTRONIC COUNTER MEASURES**

This unit consists of three elements:

3.1 Research options to meet clients’ ECMI requirements

3.2 Determine potential costs, benefits and effectiveness of options

3.3 Make recommendations to the clients for meeting their ECMI requirements

3.1 **Performance Criteria: Research options to meet clients’ ECMI requirements**

You must be able to:

1. Confirm that you have sufficient complete and accurate details of the ECMI requirements of your clients
2. Research relevant data required to meet clients’ requirements based on the evaluation of risks
3. Consider options that are objective and that have no bias
4. Identify and record details of constraints that may have an impact on the proposed options
5. Maintain the security and confidentiality of information relating to your clients’ data
6. Constraints: operational capabilities and limitations, financial, time limits, availability of resources

3.2 **Performance Criteria: Determine potential costs, benefits and effectiveness of options**

You must be able to:

1. Confirm you have sufficient accurate information on which to determine potential costs and benefits
2. Effectiveness of proposed options, including possible constraints
3. Identify, assess and record the details of any areas of concern affecting the potential effectiveness of proposed options
4. Maintain the security and confidentiality of information relating to your proposals

3.3 **Performance Criteria: Make recommendations to the clients for meeting their Electronic Counter Measures Investigation requirements**

You must be able to:

1. Prepare recommendations that have the potential to meet the ECMI requirements of your clients
2. Provide complete and accurate details of potential resource costs, benefits, effectiveness, limitations and constraints of recommendations
3. Provide recommendations of security options in the agreed format to the specified person within agreed timescales
4. Provide sufficient details and supporting information to your clients to enable them to make informed decisions about your recommendations
5. Provide the clients with considered advice on the implications of accepting, modifying or rejecting Electronic Counter Measures Investigation options
6. Provide the clients with information which has no bias
7. Take account of your clients’ culture and nature of business
8. Maintain the security and confidentiality of information relating to your clients

4. **MANAGE ELECTRONIC COUNTER MEASURES INVESTIGATION PROVISION**

This unit consists of three elements:

4.1 **Manage the provision of ECMI against agreed specifications**

4.2 **Manage ECMI against agreed operational requirements**

4.3 **Assess the effectiveness of implementing ECMI**

4.1 **Performance Criteria: Manage the provision of ECMI against agreed specifications**

You must be able to:

1. Confirm that appropriate persons responsible for implementation have and understand the requirements of relevant specifications before work is started
2. Confirm with appropriate persons clearly the responsibilities which individuals have for meeting the counter measure requirements
3. Agree with appropriate persons arrangements for inspecting and controlling the quality of work and recording the outcomes
4. Identify work which fails to meet the recommended variations and agree on corrective action
5. Identify potential improvements and recommend to the client, highlighting benefits of the improvements
6. Negotiate and agree on amendments to manage variation with the clients and accurately record relevant details
7. Maintain the security and confidentiality of information relevant to the clients and their security aims and objectives

4.2 Performance Criteria: Manage ECMI against agreed operational requirements

You must be able to:
1. Agree to arrangements with appropriate persons to monitor and record the progress of the ECMI
2. Identify and determine the implications of any deviations from planned progress which have occurred
3. Agree with the appropriate persons and implement any action necessary to prevent disruption
4. Inform the clients at agreed intervals about progress, changes to the operational programme or resource needs and suggest any actions that could improve the implementation of security measures
5. Complete required documentation accurately and within agreed time limits
6. Maintain the security and confidentiality of information relevant to the clients and their security aims and objectives

4.3 Performance Criteria: Assess the effectiveness of implementing ECMI

You must be able to:
1. Set up and apply processes for monitoring the effectiveness of ECMIs (ECMI)
2. Identify potential improvements to ECMIs and recommend them to your clients, emphasising the benefits of the improvements
3. Maintain the security of assets whilst implementing new arrangements
4. Maintain the security and confidentiality of information relevant to your clients and their security aims and objectives

5. Carry Out Technically Assisted Inspections of Premises

This unit consists of four elements:

5.1 Prepare to carry out inspections
5.2 Carry out inspections
5.3 Complete inspections
5.4 Respond to finding devices

5.1 Performance Criteria: Prepare to carry out inspections

You must be able to:

1. Confirm you have sufficient details and the necessary authority to carry out inspections
2. Confirm inspection activities with your clients, based on identified threats and vulnerabilities
3. Confirm that all necessary inspection equipment is available, functioning correctly and calibrated where necessary
4. Brief all relevant personnel and confirm their understanding of the purpose and process of inspection, prior to starting inspection activities
5. Take effective measures to avoid alerting potential attackers
6. Take effective measures to maintain the security and confidentiality of ECMI inspections and procedures
7. Provide advice and recommendations to clients to maintain the integrity of the environment following completion of inspection

5.2 Performance Criteria: Carry out inspections

You must be able to:

1. Use equipment in line with best practice to achieve its ECMI purpose
2. Use the correct tools and equipment safely and effectively
3. Use a range of tools and methods to detect devices according to different threats and vulnerabilities
4. Use detection methods appropriate to the nature of the immediate threat to your clients
5. Comply with relevant health and safety requirements
6. Obtain other specialist help and advice when required
7. Take appropriate and authorised action on discovering technical security vulnerabilities and other anomalies
8. Take effective measures to maintain the security and confidentiality of ECMI inspections and procedures
5.3 **Performance Criteria: Complete inspections**

You must be able to:

1. Report inspection results to your clients within agreed timescale
2. Give your clients advice on further action to counter technical security vulnerabilities
3. Re-instate premises to pre-inspection state
4. Complete records of inspections in accordance with appropriate procedures
5. Carry out equipment check to confirm all present and correct
6. Preserve the integrity of evidence of suspicious or illicit surveillance devices
7. Take effective measures to maintain the security and confidentiality of ECMI inspections and procedures
8. Provide detailed records of all work carried out, results obtained and recommendations made to clients

5.4 **Performance Criteria: Respond to finding devices**

You must be able to:

1. Correctly identify devices found during inspections
2. Act in line with clients’ instructions upon discovering devices
3. Record and report the relevant details relating to the devices to the appropriate persons
4. Complete required reports and documentation relevant to the devices, legibly, accurately and within required time limits
5. Maintain the health, safety and welfare of yourself and others, while responding to finding devices

6. **CARRY OUT PHYSICAL INSPECTIONS OF PREMISES**

This unit consists of four elements:

6.1 Prepare to carry out inspections
6.2 Carry out inspections
6.3 Complete inspections
6.4 Respond to finding devices
6.1 Performance Criteria: Prepare to carry out inspections

You must be able to:

1. Confirm you have sufficient details and the necessary authority to carry out inspections
2. Confirm inspections activities with your clients, based on identified threats and vulnerabilities
3. Confirm that all necessary inspection equipment is available and functioning correctly
4. Brief all relevant personnel and confirm the purpose and process of inspections, prior to starting inspection activities
5. Take effective measures to avoid alerting potential attackers
6. Take effective measures to maintain the security and confidentiality of ECMI inspections and procedures
7. Provide advice and recommendations to clients to maintain the integrity of the environment following completion of inspections

6.2 Performance Criteria: Carry out inspections

You must be able to:

1. Confirm the inspection equipment you use is functioning correctly
2. Use the correct tools and equipment safely and effectively
3. Use a range of inspection procedures to detect devices according to different threats and vulnerabilities
4. Use detection methods appropriate to the nature of immediate threat to your clients
5. Comply with relevant health and safety requirements
6. Recognise when other specialist assistance is required
7. Take appropriate and authorised action on discovering technical security vulnerabilities and other anomalies
8. Take effective measures to maintain the security and confidentiality of ECMI inspections and procedures
9. Use search patterns that are logical and effective

6.3 Performance Criteria: Complete inspections

You must be able to:

1. Report inspection results to your clients within agreed time limits
2. Give your clients advice on further action to counter technical security vulnerabilities
3. Re-instate premises to pre-inspection state (blinds, furniture, access, etc.)
4. Complete records of inspections in accordance with appropriate procedures
5. Carry out equipment check to confirm all present and correct
6. Preserve the integrity of evidence of suspicious or illicit surveillance devices
7. Take effective measures to maintain the security and confidentiality of ECMI inspections and procedures
8. Provide detailed records of all work carried out, results obtained and recommendations made to clients

6.4 **Performance Criteria: Respond to finding devices**

You must be able to:

1. Correctly identify **devices** found during inspections
2. Act in line with clients’ instructions upon discovering devices
3. Record and report the relevant **details** relating to the devices to the **appropriate persons**
4. Complete required reports and **documentation** relevant to the devices, legibly, accurately and within required timescales
5. Maintain the health, safety and welfare of yourself and others, while responding to finding devices

7. **PROVIDE POST ELECTRONIC COUNTER MEASURES INVESTIGATION INSPECTION SUPPORT**

7.1 **Performance Criteria: Provide ongoing support to clients**

You must be able to:

1. provide clients with relevant and accurate information relating to the electronic counter risk within agreed timescale
2. Provide recommendations to address residual risk
3. Communicate with your clients using appropriate methods of communication
4. Present information in a style and format that assists your clients to increase the awareness of risk associated with the loss of information and unauthorised surveillance
5. Assist in decisions about ECMI
6. Provide clients with information which has no **bias** in line with codes of practice
7. Maintain the security and confidentiality of information relating to ECMI services
8. **MAINTAIN KNOWLEDGE AND UNDERSTANDING OF CURRENT ELECTRONIC COUNTER MEASURES INVESTIGATION DEVELOPMENT**

This unit consists of three elements:

8.1 Research and evaluate technical developments relevant to ECMI
8.2 Apply new knowledge to ECMI development
8.3 Contribute to ECMI technical knowledge within your organisation

8.1 **Performance Criteria: Research and evaluate technical developments relevant to ECMI**

You must be able to:

1. Identify emerging areas of technical developments relevant to your work
2. Identify and access appropriate sources of relevant information
3. Use research methods that are efficient and effective in obtaining relevant information
4. Evaluate the usefulness and relevance of technical developments to your work
5. Maintain the confidentiality of information appropriate to the source and sensitivity

8.2 **Performance Criteria: Apply new knowledge to ECMI**

You must be able to confirm you have the authority to apply new knowledge:

1. Determine the potential effects of applying new knowledge
2. Apply new knowledge to update ECMI procedures and techniques to confirm its efficiency
3. Confirm the application of new knowledge meets its intended purpose
4. Rectify any undesirable effects of the application of new knowledge
5. Obtain other specialist help and advice when required
6. Record accurate and full details of the results of applying new knowledge

8.3 **Performance Criteria: Contribute to ECMI technical knowledge within your organisation**

You must be able to:

1. Confirm you have the authority to share new knowledge with others
2. Propose potential improvements in practices that contribute to the effectiveness of ECMI operations
3. Make sure your contributions comply with relevant legislation, regulation and codes of practice
4. Provide full and accurate details to support new developments, in formats and styles that aid understanding
5. Maintain the confidentiality of details of ECMI practices
9. **DEVELOP ELECTRONIC COUNTER MEASURES INVESTIGATION TECHNIQUES AND PRACTICES**

This unit consists of two elements:

9.1 Evaluate trends, technology, clients’ needs and relevant legislation
9.2 Propose new techniques and practices to maintain the security of information

**9.1 Performance Criteria: Evaluate trends, technology, client needs and relevant legislation**

You must be able to:

1. Identify vulnerabilities in the security of information that could be susceptible to attacks
2. Determine the potential impact of clients’ policies or procedures on security of information
3. Identify the sources or causes of threats to technical security
4. Recognise trends in attacks on technical security that have the potential to be a threat to security of information
5. Determine the possibility of treating vulnerabilities within current practices and legislation
6. Recognise when other specialist assistance is required

**9.2 Performance Criteria: Propose new techniques and practices to maintain the security of information**

You must be able to:

1. Propose new techniques and practices that have the potential to improve security of information
2. Ensure that your proposals conform to current legislation, regulation, guidelines and codes of practice relating to security of information
3. Inform relevant people of proposals as required
4. Provide details of your proposals in a language and format that aids understanding
5. Explain new techniques and practices to people who need to understand them
6. Maintain the confidentiality of details of ECMI techniques and practices
10. MAINTAIN KNOWLEDGE AND UNDERSTANDING OF LEGISLATION, REGULATION AND CODES OF PRACTICE RELEVANT TO ELECTRONIC COUNTER MEASURES INVESTIGATION (ECMI)

This unit consists of two elements:

10.1 Apply new knowledge to ECMI practices

10.2 Contribute to the increase of knowledge of legislation, regulation and codes of practice among colleagues

10.1 Performance Criteria: Apply new knowledge to ECMI practices

You must be able to:

1. Confirm you have the authority to apply new knowledge
2. Determine accurately the potential effects of applying new knowledge
3. Apply new knowledge to update ECMI practices to confirm its efficiency
4. Confirm the application of new knowledge meets its intended purpose
5. Report any undesirable effects of the application of new knowledge to the appropriate authority
6. Identify other specialist help and advice when required
7. Record accurate and full details of the results of applying new knowledge

10.2 Performance Criteria: Contribute to the increase of knowledge of legislation, regulation and codes of practice among colleagues

You must be able to:

1. Confirm you have the authority to share new knowledge with others
2. Identify and explain fully the potential impact of legislation, regulation and codes of practice on Electronic Counter Measures Investigation practices
3. Propose potential improvements in practices that contribute to increased effectiveness of Technical Surveillance Counter Measures operations
4. Make sure your contributions comply with relevant legislation, regulation and codes of practice
5. Provide full and accurate details to support proposed improvements, in formats and styles that aid understanding

11. PRESENT INFORMATION TO COURTS OR OTHER HEARINGS

This unit has been imported from Skills for Justice Suite of Standards
11.1 Performance Criteria: Present information to courts or other hearings

You must be able to:

1. Consider the information in advance of the hearing and ensure that you are in possession of the appropriate notes and materials
2. Present yourself at the venue in a timely manner and in possession of all necessary notes and Materials
3. Ensure your appearance and behavior conforms to acceptable professional standards at all times
4. Provide information and respond to questions in an appropriate manner with due regard for the rules and the procedures of the venue
5. Provide oral evidence that is consistent with any written materials provided by you as part of the case
6. Respond to all directions of the court or hearing promptly and appropriately
7. Report any breaches of court procedure or protocol that come to your attention promptly to the relevant authority

Specific Knowledge

Legal and organisational requirements
1. Current, relevant legislation, policies, procedures and codes of practice for presenting evidence to court and other hearings
2. Current, relevant legislation and organisational requirements in relation to race, diversity and human rights
3. Procedures and protocols in courts and at hearings
4. The legislation relevant to the case in question

Preparing for court or other hearings
5. How to prepare, and make available notes and materials in a manner that maintains their continuity and integrity
6. The importance of considering your evidence in advance
7. How and where to locate and obtain evidence, notes and materials for presentation
8. How to liaise with prosecuting authorities

Presenting evidence at court or other hearings
9. How to give evidence effectively in a court or hearing
10. How and when you can refer to any notes and materials in your possession
11. Techniques for maintaining control and composure under cross examination
12. The permitted liaison with victims, witnesses and defendants
13. The support services (e.g. victim support, duty solicitor) available at court/hearing and their role and Responsibilities
14. The roles and responsibilities of court personnel
15. What constitutes a breach of court protocol or procedure and to whom any breaches should be reported

Terminology - Please list terminology used with a short description of the meaning/reference in the specific forensic science discipline.

The latest terminology for Sweep/Debugging is ECMI - Electronic Counter Measure Investigation, also known as TSCM - Technical Surveillance Counter Measures

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DATE: 2017-03-05