

Education and Training on Internet Investigations

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Historical Context

- Prior to 2001 there were no coherent efforts to harmonise LE cybercrime training across the EU.
- Diverse range of “training” courses for LE
 - Not accredited
 - No learning outcomes specified
 - Scant coverage of wide range of topics
 - Often rebranded versions of previous course
 - No “testing” of participants or qualifications
- No effort to create LE community from across EU
 - Little or no sharing between LE from different states



Historical Context

- Different levels of expertise in each country
 - Large states may have excellent investigators but the evidence/criminals/proceeds may be in a state with poor cybercrime infrastructure ->
 - No successful cooperation
 - No prosecution
- Cybercrime is borderless and requires international cooperation
 - Obvious but HOW ?



Historical Context

- In 2001/2002 the EU Falcone project was carried out.
 - Recommended a greater level of harmonisation
 - Recommended academically accredited training at basic, intermediate and advanced levels.
- In 2003/2004 the AGIS programme began.
 - Developed basic training
- In 2005 and 2006 the AGIS programme continued
 - Developed 6 training courses including:
 - ***Internet Investigations,***
 - ***Network Investigations***
- In 2008-2009 the ISEC programme commenced
 - More courses
 - Combine courses from all projects to create MSc in UCD



Historical Context

- UCD has been involved in the development, harmonisation and accreditation of LE training since 2001.
- As the number of courses increased, closer management of the material was required
 - **Maintenance**
 - Appropriate access (LE only)
- UCD Centre for Cybercrime Investigation (CCI) established in 2006.
 - An entity to maintain LE focus but still reside in an academic context.
 - Not for profit



Goals of the Centre

- To develop, deliver and maintain accredited cybercrime education programmes for cybercrime investigation/security specialists charged with the prevention and investigation of high tech crime.
- Upgrade of all existing training material with support of Microsoft
 - Vital - speed of developments in the field
- Masters Degree in Forensic Computing & Cybercrime Investigation – ONLINE for LE ONLY
 - Building a community of LE experts
 - It Works !
- MSc in Digital Investigation (for industry)



Goals of the Centre

- To carry out applied and theoretical research into cybercrime and for the benefit of cybercrime investigation/security specialists in the prevention and detection of high tech crime.
- To develop, validate and maintain software tools for use by cybercrime investigation/security specialists in the prevention and fight against high tech crime.



Strong LE Links

- Academic advisors to the Europol Cybercrime Investigation Training Harmonisation Group.
- Member of Irish Delegation to the Europol Working Group on High Tech Crime Training in Europe.
- Attend Interpol Working Party on High Tech Crime.
- MOUs with Interpol and IMPACT



AGIS 2003/2004, 2005, 2006 and ISEC

- Centre has been involved in many EU projects to develop LE training;
 - Providing content experts and training designers.
 - Help to ensure consistency and quality.
 - Provide academic accreditation.
- Material available via Europol to any LE organisation in Europe
 - Also worldwide via Interpol who are full members of the Europol Cybercrime Investigation Training Harmonisation Group.



Other Work

- Working with OLAF and OSCE on large scale training projects they wish to implement.
- Working with Interpol in delivery of “ Train the Trainer” courses
 - India, Cyprus



Tool Development and Validation

- COFEE
 - Validation and development of training material
- PED skimmer log file decrypter
 - Development
- More in the pipeline!



The 2CENTRE Project

- Major focus of current activity
- Discussed in detail in afternoon session



Summary

- UCD CCI works with law enforcement, industry, judiciary and other relevant organizations
 - Training and Education
 - Accreditation
 - Basic and advanced training - CPD
 - LE only MSc programme
 - Research
 - Tool development and validation



Summary

- Cybercrime presents a new challenge to the world
 - LE, Industry, Judiciary, Regulators
- Requires a new approach of international cooperation
- **The goodwill is there on the ground in every country to cooperate and help**
- Need to harness this spirit of cooperation
- Bottom-up approach but supported from the top (governments, EU, UN, “industry”)



Summary

- We (international community) are making a difference
- But we can do much more, if we organise ourselves efficiently
- No country/industry can hope to succeed alone
- Next steps: 2CENTRE project ?



Thank You

Questions?



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