

A. Purpose:

To train employees (new or those where re-training is indicated) in the Standard Operating Procedures of the Computer Crimes Electronic Evidence Laboratory (CCEEL).

B. Responsibility:

Supervisor: to assure all training is preformed using the guidelines set forth in this document. The Supervisor may perform the training or assign a designee as the trainer.

Section Quality Manager: to assist the section Supervisor in employee training and to maintain training documents. To evaluate trainees to assure that training goals are accomplished.

Trainer: to adhere to the training guidelines set forth in this SOP. To train the trainee in a manner consistent with the standard operating procedures for the CCEEL.

Trainee: (new employee or any employee undergoing re-training): to adhere to the guidance of the CCEEL SOPs.

C. Definitions/Abbreviations:

Refer to SOP-CC-26 - Definitions and Abbreviations.

D. Procedure:

New Employees (or Newly Assigned Employees):

As of March 1, 2011 the following training outline will be followed for all persons newly assigned to the CCEEL. The amount of time necessary to achieve proficiency in any area may be affected by the previous experience and training of the individual examiner, but all tasks should be completed in six (6) months.

1. Introduction: The first sections of this training manual are common to all of the DSS. The trainee is responsible for knowing the general concepts of these chapters before beginning training in the CCEEL.
 - a. Goals:
 - i. Upon completion the examiner will be familiar with the DSS operation, LIMS system and individual responsibilities.
 - b. Tasks: Refer to GL-14 General Training
 - i. Orientation to the DSS facility and personnel
 - ii. Instruction of the organization structure, code of ethics and chain of command
 - iii. Security and confidentiality requirements
 - iv. Introduction to the quality control and quality assurance, including required documentation

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- v. Safety procedures - incident reports, fire and emergency procedures
- c. Readings:
 - i. General Laboratory SOPs (including Quality Manual and Safety Manual)
 - ii. DESPP A&O Manual
- d. Assessment:
 - (a) Completion is indicated by the completion of General Laboratory form GL-14:1
- 2. Evidence Handling
 - a. Goals:
 - i. To handle evidence in a manner appropriate for the DSS and to preserve evidence which may be analyzed by other sections within DSS.
 - ii. To learn the operation of the LIMS system, item assignment, and the maintenance of chain of evidence for submissions and items.
 - iii. To demonstrate proficiency in the basic tasks necessary to complete evidence transfer functions and create a chain of evidence
 - b. Reading:
 - i. Quality Manual
 - ii. LIMS training manual
 - c. Assessment:
 - i. By section supervisor, SQM
- 3. Foundational Scientific Knowledge
 - a. Goals:
 - i. To assure examiners have both an educational and working knowledge of the fundamental basis of computers and digital media.
 - b. Tasks:
 - i. Document any coursework and training received prior to or during the training period which has been identified as essential to the well-trained person performing the analyses.
 - ii. List any prior experience or professional organizations to which the trainee ~~you~~ belong that are recognized in the field of computers and digital media forensics.
 - c. Assessment:
 - i. Completed by the section Supervisor, SQM or designee
 - ii. List and document the review of the educational guidelines/requirements.
- 4. Applied Technical Knowledge
 - a. Goals:

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- i. To demonstrate specific knowledge related to the field of digital evidence. Detail required should correspond to the types of analysis and the level of independent work required, corresponding to the applicable job description.
 - b. Tasks:
 - i. To provide instruction and show proficiency in the following areas:
 - (a) Data analysis
 - (b) Data recovery
 - (c) Data restoration
 - (d) Imaging/Acquisition
 - (e) DVR data recovery
 - (f) Cell phone data recovery
 - (g) Hard drive sterilization
 - (h) Removable media sterilization
 - c. Required reading
 - i. Validation studies both internal and external for the various procedures.
 - d. Assessment:
 - i. Documentation of successful completion of each task by written and /or oral examination.
 - ii. Notation that applied procedural knowledge has been achieved.
5. Laboratory Analytical Procedures
- a. Goals:
 - i. To provide practical instruction to examiner on analytical procedures carried out as routine tests by persons in the job description of the examiner
 - b. Tasks:
 - i. To provide instruction and training in the following areas:
 - (a) Data analysis
 - (b) Data recovery
 - (c) Data restoration
 - (d) Imaging/Acquisition
 - (e) DVR data recovery
 - (f) Cell phone data recovery
 - (g) Hard drive sterilization
 - (h) Removable media sterilization
 - c. Required Reading:

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- i. CCEEL SOPs
- ii. Manuals corresponding to vendor specific methods relating to specific procedures.
- d. Assessment:
 - i. Evaluation of each examiner performed procedure by the section supervisor, QM or designee.
 - ii. Side-by-side examination of evidence with the section supervisor of sufficient number and kind as determined by need.
 - iii. Completion of a competency case; this will include the complete working of a case from assignment to writing the report.
 - (a) The competency test may be an old proficiency test or a mock case can be made up by the section Quality manager.
 - (b) The laboratory will attempt to assure that mock cases resemble typical case materials..
 - iv. Proficiency test completion for each type of examination. This may includes samples which correspond to a mock case, as compiled by the lead criminalist or other supervisor.
 - v. Documentation of the readiness for casework by the section Supervisor ~~head~~ in the form of an approval memo (see Quality Manual).
- 6. Report Writing
 - a. Goals:
 - i. To learn the Laboratory protocol for report writing and review, including LIMS procedures
 - b. Tasks:
 - i. Become familiar with Laboratory interpretation guidelines.
 - ii. LIMS training manual section on final reports and milestones.
 - c. Required reading:
 - i. LIMS training manual and handouts on final reports and milestones.
 - ii. Review of reports with various types of cases and scenarios as determined by the section supervisor or designee.
 - d. Assessment:
 - i. Sample data/results given to the examiner to interpret and write a report.
 - ii. Demonstrate proficiency in LIMS.
 - iii. Complete written report of test results.
 - iv. Documentation of these processes by the section supervisor or designee.
- 7. Legal Issues
 - a. Goals:
 - i. To become familiar with the legal requirements for testimony in Connecticut
 - b. Tasks:

- i. Examiner will receive instruction on the requirements and testimony related to:
 - (a) Qualifications
 - (b) Technical testimony
 - (c) Courtroom dress and demeanor
 - (d) Ethical responsibilities of expert witnesses
 - (e) Laboratory courtroom monitoring procedures and reports
 - (f) Presentation of evidence
 - (g) Pertinent rules of the courtroom
- c. Required reading:
 - i. Transcripts or sample testimony
 - ii. State admissibility requirements (*State v. Porter*)
 - iii. Admissibility, in general -*Frye*, *Daubert*, etc.
- d. Assessment:
 - i. Oral or written questions by the section supervisor or designee.
 - ii. Moot court - each examiner who is new to the Laboratory shall demonstrate expertise by Moot court. Documentation of the Moot court should contain an evaluation in memo form of the examiner's responses and demeanor.
- 8. Assessment method, in general:
 - a. A checklist for each of the above, listing the specific skills, knowledge or ability demonstrated for a particular requirement. This would be signed off by for each step by the supervisor doing the training and the examiner. At the end of the training program a memo would be written that all training is complete, as outlined in the Quality Manual.
- 9. Re-Training:
 - a. Re-training may be indicated due to numerous issues such as:
 - i. failing a proficiency test
 - ii. unsatisfactory analysis of case materials as determined by the section Supervisor or section Quality Manager
 - iii. an extended leave from the section
 - iv. other
 - b. The extend of retraining will be dependant of the specific circumstance. The section Quality Manager with the section Supervisor will develop a written re-training plan prior to implementation of the training. The Division Laboratory Director or Division Quality Manager may be consulted to assure the plan is comprehensive.
 - i. In general the training plan will include:
 - (a) Goals of training
 - (b) Who will perform the training
 - (c) The steps of the training (tasks to be performed, reference materials to be reviewed, if applicable, specific topics to be covered)
 - (d) Timeline for completion
 - (e) Method of assessment of the training (acceptable methods of assessment include a

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written test, oral examination documented by the section Supervisor, or a competency test)

- c. Completion of the re-training will be indicated by:
 - i. The successful completion of the assigned tasks
 - ii. The successful completion of the competency test
 - iii. Documented review of the training materials by the section Supervisor and section Quality Manager.
- d. The section Supervisor will write an approval letter for the training file allowing the analyst to resume case analysis.

10. Bibliography:

- a. All associated reference materials relating to the training process are maintained in the CCEEL library, out on the main CCEEL server (currently named Turing) and online.

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Division of Scientific Services
Computer Crime and Electronic Evidence Laboratory

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Computer Crimes Electronic Evidence Training Checklist

Trainee: _____ Date training started: _____

Topic	Trainee's Initial	Trainers Initial	Date
Proper evidence handling and storage within the DSS and the CCEEL			
Use of LIMS (Justice Trax)			
Introduction to functions of LIMS system			
Chain of Custody Maintenance in JT –Evidence Transfers			
Applied Technical Knowledge:			
Data analysis			
Data recovery			
Data restoration			
Imaging/Acquisition			
DVR data recovery			
Cell phone data recovery			
Hard drive sterilization			
Removable media sterilization			
Laboratory Analytical Procedures:			
Data analysis			
Data recovery			
Data restoration			
Imaging/Acquisition			
DVR data recovery			
Cell phone data recovery			
Hard drive sterilization			
Removable media sterilization			
Case Documentation			
Documents included in a case file			
Initialing all case documentation			

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Case milestones			
Technical and Administrative Reviews			
Court Training			
Qualifications			
Technical testimony			
Courtroom dress and demeanor			
Ethical responsibilities of expert witnesses			
Laboratory courtroom monitoring procedures and reports			
Presentation of evidence			
Pertinent rules of the courtroom			
Other:			

By initialing the individual section topics the trainee agrees that the topic has been reviewed with them, the trainer agrees that they have reviewed the topic with the trainee.