CC SOP-25 - Training Protocol

Document ID: 1072

Revision: 2

Effective Date: 12/23/2015

Status: Published Page **1** of **9**

Approved by Director: Dr. Guy Vallaro

A. Purpose:

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

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.

Unit Technical Leader: to assist the unit 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 CCEEU.

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

C. Definitions/Abbreviations:

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

D. Procedure:

New Employees (or Newly Assigned Employees):

The following training outline will be followed for all persons newly assigned to the CCEEU. 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. The time period may be extended depending on individual progress and other circumstances.

- 1. Introduction: The first sections of this training manual are common to all of the DSS. The trainee is responsible for learning and familiarizing themselves with the general concepts of these chapters before beginning training in the CCEEU.
 - 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.

State of Connecticut Department of Emergency Services and Public Protection Division of Scientific Services

Documents outside of Qualtrax are considered uncontrolled.

Revision: 2

Effective Date: 12/23/2015

Approved by Director: Dr. Guy Vallaro

Status: Published
Page 2 of 9

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 and the use of the Qualtrax system.
- 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 / units 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, Technical Lead.
- 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.

Revision: 2

Effective Date: 12/23/2015

Approved by Director: Dr. Guy Vallaro

Status: Published
Page 3 of 9

ii. List any prior experience or professional organization memberships and certifications held by the trainee that are recognized in the field of computers and digital media forensics.

c. Assessment:

- i. Completed by the section Supervisor, Technical Lead or designee.
- ii. List and document the review of the educational guidelines/requirements.

4. Applied Technical Knowledge

- a. Goals:
 - 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:

Documents outside of Qualtrax are considered uncontrolled.

CC SOP-25 - Training Protocol

Document ID: 1072

Revision: 2

Effective Date: 12/23/2015

Status: Published Page 4 of 9

Approved by Director: Dr. Guy Vallaro

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:

- i. CCEEU 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, Technical Lead or designee.
- ii. Side-by-side examination of evidence with the unit Supervisor/Technical Lead 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 that is made up by the Unit Supervisor / Technical Lead or designee.
 - (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 include samples which correspond to a mock case, as compiled by the unit Supervisor / Technical Lead.
- v. Documentation of the readiness for casework by the unit Supervisor 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.

State of Connecticut Department of Emergency Services and Public Protection Division of Scientific Services

Revision: 2

Effective Date: 12/23/2015

Approved by Director: Dr. Guy Vallaro Status: Published

Page **5** of **9**

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 unit Supervisor / Technical Lead 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 unit Supervisor / Technical Lead or designee.

7. Legal Issues

- a. Goals:
 - i. To become familiar with the legal requirements for testimony in Connecticut.
- b. Tasks:
 - i. The 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 / Technical Lead conducting 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:

Revision: 2

Effective Date: 12/23/2015

Approved by Director: Dr. Guy Vallaro

Status: Published Page **6** of **9**

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 unit Supervisor or unit Technical Lead.
- iii. An extended leave from the unit.
- iv. Other
- b. The extent of the re-training will be dependent on the specific circumstance. The unit Technical Lead with the unit Supervisor will develop a written re-training plan prior to implementation of the training. The Division Deputy 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) The individual(s) performing 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 written test, oral examination documented by the unit Supervisor / Technical Lead, 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 unit Supervisor / Technical Lead.

10. Training/Re-Training Completion Approval

- a. At the end of the training/re-training program, a memo/email shall be written to the Deputy Director stating that the examiner has successfully completed their training and has been administered a competency case that evaluated their analytical skills and their ability to clearly communicate their findings in a report.
- b. The Deputy Director may review the training files or simply endorse this memo/email and generate a request to the Quality Section requesting that this examiner be authorized to perform casework in that discipline.

11. Technical Review Approval:

a. The examiner will perform casework and after gaining experience in conducting analysis and reporting findings in a variety of evidence type/conclusions in the discipline, their experience

State of Connecticut Department of Emergency Services and Public Protection Division of Scientific Services

Document ID: 1072 **CC SOP-25 - Training Protocol**

Revision: 2

Effective Date: 12/23/2015

Approved by Director: Dr. Guy Vallaro Status: Published

Page **7** of **9**

will be evaluated for the ability to conduct technical reviews. This evaluation period may include technical review ghosting with an experienced examiner. Once the examiner has completed the evaluation period, a memo/email shall be written to the Deputy Director stating that the examiner has successfully completed their evaluation period and has been deemed competent to conduct technical reviews in that discipline.

b. The Deputy Director, after review, may endorse this memo/email and generate a request to the Quality Section requesting that this examiner be authorized to perform technical reviews based upon the examiner's casework experience in that discipline.

12. References:

a. All associated reference materials relating to the training process are maintained in the CCEEU library, archived on the main CCEEU server (currently the iso folder) and online.



Connecticut Department of Emergency Services and Public Protection Division of Scientific Services Computer Crime and Electronic Evidence Unit

Document ID: SOP-CC-25:1

Revision #: 1

Revision Date: 11/08/11

Page 8 of 9

Computer Crimes Electronic Evidence	Training Chec	klist			
Trainee: Date tra	Date training started:				
Topic	Trainee's	Trainers	Date		
	Initial	Initial			
Proper evidence handling and storage within the DSS and the					
CCEEU					
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					

Connecticut Department of Emergency Services and Public Protection Division of Scientific Services Computer Crime and Electronic Evidence Unit

Document ID: SOP-CC-25:1

Revision #: 1

Revision Date: 11/08/11

Page 9 of 9

			1 480 > 01
	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		
Report Writing			
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.