FB SOP-26 Training Manual and Checklist

Document ID: 2286

Revision: 2

Effective Date: 3/24/2016

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Approved by Director: Dr. Guy Vallaro

TRAINING MANUAL AND CHECKLIST

26.1 PURPOSE

To train forensic science examiners to examine evidence, perform serological tests and use the LIMS computer system.

26.2 RESPONSIBILITY

Forensic Science Examiner 2 or designee of the Forensic Biology Unit. The amount of time necessary to achieve proficiency in any area may be affected by the previous experience and training of the individual examiner. The Deputy Director or designee will oversee all training.

26.3 SAFETY

Use appropriate measures for the proper handling of physical evidence, biological materials and chemicals according to GL-2 (Safety Manual) Safety Data Sheets.

26.4 **DEFINITIONS**

LIMS: Laboratory Information Management System ABAcard® HemaTrace® and p30: Rapid Immunoassays

RSID: Rapid Stain Identification

KM: Kastle-Meyer o-Tol: o-Tolidine AP: Acid Phosphatase



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26.5 TRAINING CHECKLIST

I. Introduction

The initials of the Forensic Science Examiner 2 or designee indicates that all practical exercises have been completed and the correct results have been obtained on the competency test (if applicable).

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		Goals:
		Upon completion, the examiner will be familiar with the Forensic Laboratory
		operation.
<u>Initials</u>	<u>Date</u>	Tasks:
		Orientation to the Laboratory facility and personnel
		Instruction on the organizational structure, code of ethics and the chain of command
		Familiarized with building security and confidentiality requirements
		Introduction to the quality control measures, including required
		Documentation, LIMS and Qualtrax
		Familiarized with safety procedures, chemical handling and proper handling of
		biohazardous materials such as blood and body fluids, incident reports and
		fire/emergency procedures.
		Reading:
		All current DSS General Laboratory SOPs
		All current Forensic Biology SOPs

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II. Scientific Knowledge

Initials

Goals: To ensure the examiner has the formal education and working knowledge of the fundamental basis of serology and physical evidence examination. Tasks: Document a Bachelor's degree or higher in a physical or closely related science. Document Laboratory training and experience in Forensic Science or a closely related field (i.e. SOQ and CV). Reading: DeForest, P. R., Gaensslen, R. E. and Lee, H. C., Forensic Science: An Introduction to Criminalistics, Chapter 6:"Transfer and Trace Evidence,"Chapter 9: "Blood" and Chapter 10: "Body Fluids," McGraw-Hill, Inc., 1983. Lee, H. C. "Identification and Grouping of Bloodstains," Forensic Science Handbook,vol.1, ed. Richard Saferstein, Prentice hall, Inc. 1982, pp267 – 337.

AS A REFERENCE: Gaensslen, R. E., Sourcebook in Forensic Serology,

Immunology, and Biochemistry, National Institute of Justice, 1983.

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III. Technical Knowledge, Evidence Handling and Examination Goals:

Upon completion, the examiner will be able to demonstrate technical knowledge and proper techniques for the documentation, handling and transfer of physical evidence, both general and specific to the Forensic Biology Unit. The examiner will also develop the critical thinking skills necessary to evaluate the case circumstances and ensure all necessary testing has been requested.

Tasks: Received instruction on the theory and observed techniques specific to the examination Initials Date of physical evidence, including but not limited to: 1. Recognition of evidence Recognition of Trace material 2. Recognition of patterns 3. 4. Documentation of damage Documentation and identification of blood and/or body fluid stains 5. Proper preservation of evidence, transport and/or transfer of evidence for 6. further testing Familiarized with the proper procedures for documenting the evidence packaging

Familiarized with the proper procedures for documenting the evidence packagin and labeling.

Learned to properly handle physical evidence with blood/body fluid stains and to preserve and package cuttings, swabs and/or trace material for future testing.

Learned the proper aseptic technique for handling evidence.

Learned the proper technique for the collection of touch/wearer samples.

Learned the proper technique for handling and preserving liquid blood samples

Learned the operation of the LIMS system, packaging designation of sub-items, maintenance of the chain of custody of the evidence, transfer of evidence to another Unit, and transfer of sub-items into their proper storage locations

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IV. Laboratory Analytical Procedures Goals:

To provide practical instruction to the examiner on routine analytical procedures utilized in the Forensic Biology Unit.

Tasks:

- 1. Training will be conducted through a series of demonstration, observed practice and side-by-side examination of evidence with a supervising examiner or a designee. It is the trainee's responsibility to document the DSS case number, technique(s) utilized and trainer worked with through this process.
- 2. Training will be supplemented with corresponding journal articles relating to the specific procedure. These articles include but are not limited to those found in the Forensic Biology SOP Reference Binder and relevant Forensic Biology Validation binders.
- 3. Trainees are expected to review case jackets, including worksheets, photograph documentation and reports generated by analysts during their training.
- 4. Training for each procedure is fulfilled upon successful completion of a competency and oral examination at the discretion of a Forensic Science Examiner 2 or designee of the Forensic Biology Unit.
- 5. Fill in the table below accordingly, with the date range of execution.
- 6. After a probationary period (to be determined and approved by the DSS Director and Deputy Director) and the successful completion of above training, the examiner will be assigned small cases. An examiner is not required to complete training in all FB procedures before going on-line as an analyst.
- 7. With increasing experience, the examiner will be assigned more complex/larger cases.
- 8. Retraining, if needed, will be performed and a competency/proficiency test will be given according to GL-14 (General Training).

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5. Fill in accordingly, with the date range of execution:

Procedure	Practical	Competency	Oral	Supplemental	Applicable	Initials
	Exercises		Examination	Reading	Case Jackets	
AP						
CT/SH staining						
Sperm searches						
ABAcard p30						
Amylase						
RSID-Urine						
Urobilinogen						
Other:						
KM/o-Tol						
RSID-Blood						
HemaTrace						
Takayama						
Ouchterlony						
Other:						

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V. **Report Writing and Review Goals:** To learn the Laboratory protocol for report writing, report review, finalization of reports and review of LIMS procedures in order to conduct report writing as an analyst. Tasks: **Initials** Date Learned Laboratory and Unit guidelines for the writing of reports, and the completion of the documentation in LIMS. Completed a written report of proficiency or competency test results. A new analyst must complete a minimum of (5) cases and be evaluated prior to authorization for Technically Reviewing cases. The completion of additional cases may be necessary as determined during evaluation. Reviewed a minimum of five (5) reports after the completion of the initial technical review Independently conducted the initial technical review of a minimum of five (5) reports; Reports must then be reviewed by a Forensic Examiner 2 or designee of the Forensic Biology Unit. **Legal Issues** VI. Goals: To become familiar with the legal requirements for testimony in the state of Connecticut. Tasks: Date **Initials** Received instruction on the following: 1. Qualifications 2. Technical testimony 3. Courtroom dress and demeanor 4. Ethical responsibilities of an expert witness 5. Laboratory courtroom monitoring procedures 6. Presentation of evidentiary findings Pertinent rules of the courtroom May observe courtroom testimony of another examiner in the Forensic Biology Unit. Testimony given by a former examiner of the Forensic Biology Unit may be observed if the testimony relates to Forensic Biology examination and testing. Moot court conducted by examiners in the Forensic Biology Unit **Reading:** Transcripts or sample testimony of examiners in the Forensic Biology Unit Admissibility requirements: State v. Porter, Frye, Daubert

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26.6 REFERENCES

- A. GL-2 (Safety Manual)
- B. GL-4 (LIMS/Justice Trax)
- C. GL-14 (General Training)
- D. Public Act No. 15-207 (An Act Concerning Evidence in Sexual Assault Cases)

