FB SOP-26 Training Manual and Checklist

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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

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).

I. Introduction	
	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.
	introduction provided.
	Reading:
	All current DSS General Laboratory SOPs
	All current Forensic Biology SOPs
	All cullent Foreiste Biology SOT's

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## II. Scientific Knowledge

## **Goals:** To ensure the examiner has the formal education and working knowledge of the fundamental basis of serology and physical evidence examination. Tasks: Initials Date 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: Recognition of evidence 1.

 	2. Recognition of Trace material
 	3. Recognition of patterns
	4. Documentation of damage
 	5. Documentation and identification of blood and/or body fluid stains
 	6. Proper preservation of evidence, transport and/or transfer of evidence for
	further testing
 	Familiarized with the proper procedures for documenting the evidence packaging
	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 Training 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. All work will be checked by another examiner, who will also co-sign the reports. An examiner is not required to complete training in every specific test and area above before going on-line as an analyst as long as they have fulfilled the training for the specific are they are going on-line for.
- 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	Goals: To learn the Laboratory proto	ocol for report writing, report review, finalize	
Initials Date	completion of the documental Completed a written report of Review a minimum of five (5 Independently conduct the in	guidelines for the writing of reports, and the tion in LIMS.  If proficiency or competency test results.  If proficiency or competency test results.	technical review
VI. Legal Issues	Goals: To become familiar with the l Connecticut.	egal requirements for testimony in the state	of
Initials Date	<ul><li>6. Presentation of eviden</li><li>7. Pertinent rules of the control</li></ul>	demeanor s of an expert witness monitoring procedures tiary findings	ner in the
	Forensic Biology Unit. Testin Unit may be observed if the testing.  Moot court conducted by examine Reading:	nony given by a former examiner of the Forestimony relates to Forensic Biology examination in the Forensic Biology Unit  ny of examiners in the Forensic Biology Unit	rensic Biology nation and

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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)

