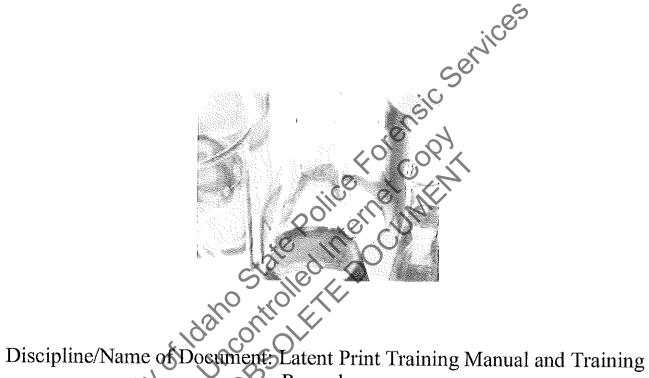
Idaho State Police Forensic Services

Approval for Quality System Controlled Documents



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Revision Number: 5

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APPROVED BY: Alland

Checklist Submitted and Checked __

Property of Idaho State Police Forensic Services



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Latent Print Examiner Training Manual ISP Forensic Services

History Page

The original version of the Latent Print Examiner Training Manual was accepted July 10, 2000.

Revision 1, was revised from revision 0, and was effective May 1, 2004.

Revision 2, was revised from revision 1, and is effective December 1, 2006.

Revision 3, was revised from revision 2, and is effective February 4, 2008.

Revision 4: Changes made to, Introduction, Sections 18 6, Revision 4 is effective April 16, 2010.

Revision 5: Complete Training Manual revision, Revision 5 is effective August 17, 2010.

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Overview of Training Program

- A. All new latent print examiners will be assigned to qualified latent print examiner(s) who will act as their trainer(s).
- B. Trainees must pass written tests and/or practical exercises on required objectives. All tests are closed book unless otherwise noted.
- C. The duration of training is 1 1/2 to 2 years depending upon the progress of the examiner and their demonstrated aptitude and ability. Training blocks may be completed in any order. Trainees with previous training and experience will be evaluated against all training criteria to determine which standards have been met and areas that may require additional training.
- D. During the training phase the trainee should attend workshops and/or training classes in the areas of latent print processing, latent print comparison, crime scene processing, courtroom testimony, digital imaging, and photography. Training on additional topics may be attended as approved. Attendance of outside training courses/workshops is subject to course availability and budget constraints. Requests for training shall be approved through the chain of command. A list of recommended latent print training courses may be found in Appendix "B" of this training manual.
- E. All cases processed and examinations performed during training will be with the trainee working as "the hands of the trainer" as defined by the ISPFS Quality/Procedure Manual.
- F. Reading is an on-going process during the training phase and shall include books, articles, and journals held in the Latent Section Library. A list of required reading for each training block is listed along with a signoff for the completion of each task. A list of additional recommended reading for latent examiners may be found in Appendix "A" of the training manual.
- G. During training, the trainee shall accompany their coach and other trained latent examiners on field case processing. Allowing the trainee to accompany more than one latent print examiner will afford them the opportunity to learn the various techniques that each examiner utilizes and to develop their own style of crime scene processing. The trainee's coach and the programs supervisor shall determine the point at which the trainee is able to work field cases on their own.
- H. The trainee shall satisfactorily complete competency tests in the areas of digital imaging, AFIS, latent print processing, and latent print comparisons.

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- I. The trainee may accompany other examiners to court to gain exposure to expert testimony on latent prints during the training period.
- J. The trainee shall participate as an expert witness in a moot court prepared by other latent print examiners to gain exposure to latent print testimony. In the event that the trainee has previous testimony experience that experience shall be evaluated to ensure that all training criteria have been met.
- K. Any latent print training classes that are taught by FS personnel during the training phase shall be observed by the trainee. After attending these classes, the trainee may be required to assist or teach some segments of the training classes.
- L. The trainee shall keep a record of all experience obtained during the training phase. This shall include time spent working with inked prints, classes attended, classes instructed, court testimony observed or performed (including moot), field cases observed or worked, # of comparisons, # of identifications effected, # of AFIS comparisons & identifications, # of cases processed, and special projects completed during the training phase. These statistics will be a valuable aid for future court testimony.
- M. It is encouraged that the trainee make application to become a member of the International Association for Identification (IAI) and the Pacific Northwest Division of IAI. A list of professional associations and certifications may be found in Appendix "C" of this Training Manual.
- N. This training manual does not preclude the coach from adding other pertinent topics as may be applicable and/or related to the science of friction ridge analysis, forensic science, and the criminal justice system. However, additional courses or topics must be approved by the Latent Program Supervisor prior to instruction or incorporation within the program.
- O. Training blocks may be segmented as necessary for optimal student understanding of the subjects and concepts presented. Field trips are authorized to enhance courses under current study. Training blocks may be supplemented by additional required readings, group discussion, independent and direct study, practical exercise, or research (or any combination thereof).

Laboratory Introduction

1.1 1.1.1	Objectives: Orientation to the Idaho State Police Forensic Services (FS).
1.1.2	Understanding of the organization structure, chain of command, and policies/procedures for FS.
1.1.3	Understanding of laboratory security and the need for confidentiality.
1.1.4	Understanding of the quality assurance/quality control guidelines for FS.
	Understanding of the safety guidelines for FS. Knowledge of the potential explosion, fire, and contamination safety hazards associated with latent print development powders, solvents and chemicals.
1.1.7	Understanding of the professional duties moral obligations, and code of ethics for forensic Scientists.
	Required Reading: Idaho State Police Employee Handbook. Trainee / Completion Date /
1.2.2	Idaho State Police Forensic Services (ISPFS) Quality/Procedure Manual.
1.2.3	ISPFS Health and Safety Manual//
1.2.4	Latent Print Section Analytical Method (AM).
1.2.5	Safety for the Forensic Identification Specialist Nancy E. Masters 2nd Edition. //
1.3 Lectu	re: O
1.3	The analyst shall complete an approved Ethics training course. The online Ethics training course sponsored by West Virginia University is the current approved course. If an approved ethics course becomes unavailable, the Latent Section Supervisor will choose or design a new course that meets the training module requirements.
	Course Completed:
	Date: Attach copy of certificate
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1.3 1.3.1	Unit Exams: Module 1: Assessment Test	Supervisor / Date / P or F
1.3.2	ISPFS Health & Safety Manual Exam (open book)	
1.3.3	ISPFS Quality/Procedure Manual Exam (open book)	
1.4	Tetanus/Hep Vaccination Completion or Declination:	Trainee / Completion Date
1.5	Sign Off of Module 1:	Trainee / Completion Date / Supervisor / Completion Date / tance policy and evidence
2 Evide	nce Handling	
2.1 2.1.1	Objectives: Understanding of the case/evidence accept receiving procedures.	tance policy and evidence
2.1.2	Understanding of evidence packaging and	chain of custody.
2.1.3	Understanding of evidence handling, preve documentation.	ntion of contamination, and
2.1.4	Understanding of, and the ability to demons handling and marking physical evidence re-	
2.1.5	Understanding of proper procedures for pacevidence for subsequent latent print examine evidentiary value.	
2.2 2.2.1	Required Reading: ISPFS Quality/Procedure Manual Sect. 5.8 Handling Items of Evidence	Trainee / Completion Date

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2.2.2	Latent Print Section AM Section 5.	
2.2.4	Physical Evidence collection Manual (ISP website)	
2.3 2.3.1		Trainee / Completion Date
2.3.2	Trainer Led Introduction to Evidence Procedures: (Sign-in/out, packaging, storage) Exan	nines Trainer
	Date:	<u> </u>
2.4 2.4.1	Unit Exam: Module 2: Assessment Test Sign Off of Module 2: Superprint Identification	pervisor / Date / P or F
2.5	Sign Off of Module 2:	ervisor / Completion Date
3 Histo	ry and Background of Fingerprint Identification	
3.1 3.1.1	Objectives: Understanding of early methods of personal identification photography, scars, tattoos, sight recognition, mark	fication (Bertillon system,
3.1.2	Understanding of the earliest recorded awareness dwellers-Chinese).	of fingerprints (cliff
3.1.3	Understanding of early anatomical observations (GAI.) and have an understanding of the biological significant patterns and their formation.	
3.1.4	Understanding of the scientific observations and us modern fingerprint identification (Herschel, Faulds, Henry).	. .
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3.1.5	Understanding of the chronology of the introduction and use of fingerprints in the United States (Thompson, Twain, DeForest, Ferrier, NY Prison System, U.S. Navy and Army, FBI).
3.1.6	Understanding of the current criminal and civil applications of fingerprints, palm prints, and footprints and how these applications developed in the United States.
3.1.7	Understanding of the existence and development of various criminal and civil fingerprint files (FBI, U.S. military medical records, state and local fingerprint and palm print repositories).
3.2 3.2.1	Required Reading: Fingerprint Techniques, Andre Moenssens. Chapter 1, "The History of Fingerprinting." Pages 1-26. Chapter 2, "The Nature of Friction Skin." Pages 27-63.
3.2.2	Chapter 2, "The Nature of Friction Skin." Pages 27-63. Finger Prints, Palms and Soles, by Harold Cummins and Charles Midlo. Chapter 1, "History." Pages 3-21. Chapter 2, "General Considerations." Pages 22-42. Criminalistics, 9th edition by Richard Saferstein.
3.2.3	Criminalistics, 9th edition by Richard Saferstein.

Pages 428- 430

3.2.4 Advances in Fingerprint Technology

"History and Development of

2nd edition, by Lee, Gaensslen. Chapter 1,

3,2,7	by David R. Ashbaugh. Chapter 2, "History of Fiction Ridge Identification." Pages 11-60.	
3.2.8	The Fingerprint Sourcebook by Scientific Working Group on Friction Ridge Analysis, Study and Technology (SWGFAST), et al. Chapter 1: History. Available on line from the USDOJ	
3.2.9	By Andre A. Moenssens	Services
3.3 3.3.1	Chapters 7 "Fingerprint Evidence in Criminal Cases" Chapter 8 "Fingerprints in Non-Criminal Cases" Pages 108-147 Practical Exercise: Write a short synopsis of the contributions of each Hershel, Faulds, Galton, Vucetich & Herry Unit Exams: Module 3: Assessment Test Sign Off of Module 3: Sup	of the following figures: Supervisor / Date / P or F
3.4 3.4.1	Unit Exams: Module 3: Assessment Test	Supervisor / Date / P or F
3.5	Sign Off of Module 3: Sup	ervisor / Completion Date
4 Biolo	gy and Physiology of Friction Ridge Skin	
4.1 4.1.1	Objectives: Understand the biology and physiology of friction r	
4.1.2	Understanding of the basic foundations of the scie identification (persistence and uniqueness).	nce of friction ridge
4.1.3	Understanding of the basic anatomy and terminological	ogy of the hands and feet.

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- 4.1.4 Understanding of the general chemical composition of human perspiration as a means of understanding the composition of latent print residue.
- 4.1.5 Knowledge of genetic abnormalities of friction ridge skin (e.g. dysplasia, copal patterns, dissociated ridges).
- 4.1.6 Knowledge of alteration and mutilation of friction ridge skin.

4.2 4.2.1	Required Readings: Scott's Fingerprint Mechanics, by Robert D. Olsen, Sr. Chapter 1, "Fingerprint Identification." Pages 5-14, 24-30.	Trainee / Completion Date
4.2.2	Fingerprint Techniques, by Andre Moenssens. Chapter 2, "The Nature of Friction Skin." Pages 60-63.	0 / / / / / / / / / / / / / / / / / / /
4.2.3	Finger Prints, Palms and Soles, by Harold Cummins and Charlie Midlo Chapter 8, "Elements of Finger-Print Identification." Pages 143-155.	
4.2.4	Criminalistics, 9th edition by Richard Saferstein. Chapter 14, "Fingerprints."	
4.2.5	Forensic Science an Introduction to Criminalistics, by Deforest, Gaensslen, & Lee. Chapter 12, "Fingerprints and Other Patterns for Personal Identification" Pages 330 -358.	/
4.2.6	Quantitative-Qualitative Friction Ridge Analysis, by David R. Ashbaugh. Chapter 3, "Friction Ridge Medium." Pages 61-85.	
4.2.7	by Christophe Champod et. Al.	ession ,
4.2.8	and Pattern Formation"	n/
	by Kasey Werthelm and Alice Maceo	
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4.2.9	Paper – "Qualitative Assessment of Skir A Pilot Study." JFI, Vol. 59, No. 4, 2009	
4.2.10	Paper – " Discriminability of Fingerprints JFI, Vol. 58, No. 1, 2008	of Twins."
<i>4</i> 2 11	1 Paper – "Fingerprint Patterns: A Study o	/
4.2.11	Finger and Ethnicity Prioritized Order of JFI, Vol. 55, No. 4, 2005.	
4.2.12	2 Paper – "Permanent Intentional Fingerpi	rint Mutilation" Kasey Wertheim
4.2.13	3 Paper – "An Extreme Case of Fingerprin 1998.	it Mutilation." JFI, Vol. 48, No. 4,
4.3 4.3.1	Practical Exercise: Find and read two articles (published wit and physiology of friction Ridge skin	thin the past 7 years) on the biology
	Find and read two articles (published with and physiology of friction Ridge skin) Title	Trainee / Completion Date
4.3.2	Present a short synopsis of the papers y	
	aropert.	Supervisor / Completion Date
4.4	Unit Exam: Module 4: Assessment Test	Supervisor / Date / P or F
	Assessment rest	
4.5	Sign Off of Module 4:	Supervisor / Completion Date
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5 Friction Ridge Pattern Recognition and Interpretation

5.1 5.1.1	Objectives:	one accomiated with friction	
0.1.1	Understanding of common terminology and definition ridge pattern recognition (arch, loop, and whorl).	ons associated with inction	
5.1.2	Understanding of pattern recognition.		
5.1.3	Awareness and understanding of the Henry Classiff 5.1.3.1 Origin 5.1.3.2 FBI extensions 5.1.3.3 Pattern interpretation 5.1.3.4 Parts of classification	ication System to include:	
5.1.4	Awareness and understanding of other classification Classification System, American System, and the V	•	
5.1.5	Understanding of friction ridge formations as they reinterpretation, and identification.	elate to recognition,	
5.2 5.2.1	interpretation, and identification. Required Reading The Science of Fingerprints, by the FBI. Chapters 2-8. Pages 3-110. Friction Ridge Skin, by James R Cowger. Chapter 3, "Classification." Pages 35-70.	rainee / Completion Date	
5.2.2	Friction Ridge Skin, by James F. Cowger. Chapter 3, "Classification." Pages 35-70.		
5.2.3	Fingerprint Techniques, by Andre A. Moenssens: Chapter 3, "Pattern Interpretation." Pages 64 101.		
5.2.4	Fingerprint Techniques, by Andre A. Moenssens. Chapter 6, "Fingerprint Classification in the United States." Pages 158-173.		
5.2.5	Scott's Fingerprint Mechanics, by Robert D. Olsen Sr., Chapter 1, Sections 7, 8, and 9, "Fingerprint Classification," "Space Value on Fingerprint Cards," "Fingerprint Patterns are Complex Yet Simple."		

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	Pages 17-21.	/
5.2.6	Criminalistics, 9th edition by Richard Safersteir Chapter 14, "Classification of Fingerprints." Pages 430-435.	n
5.2.7	Fingerprints and The Law, by Andre A. Moenssens. Chapter 2, "Fingerprint Principles and Techniques." Pages 10-23.	<u>~ ~ 1</u>
5.2.8	The Fingerprint Sourcebook by Scientific Work Group on Friction Ridge Analysis, Study and Technology (SWGFAST), et al. Chapter 5: Systems of fingerprint classification. Available on line from the USDOJ Practical Exercise Fingerprint Classification Exercise	Sel
5.3 5.3.1	on line from the USDOJ Practical Exercise Fingerprint Classification Exercise Classify three fingerprint cards for both Primary Henry and NCIC Unit Exam: Module 5: Assessment Test	Supervisor / Date / P or F
	20 stated II DO	/
5.4 5.4.1	Unit Exam: Module 5: Assessment Test	Supervisor / Date / P or F
5.5		Supervisor / Completion Date
6	Automated Fingerprint Identification System	n (AFIS)
6.1 Objed	etives:	
	ALLA CO.	

6.1.1 Understanding of automation technology and theory of operation to include: 6.1.1.1 The history of the development of friction ridge automation technology.

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- 6.1.1.2 The theory of the operation of friction ridge automation technology to include distortion when three-dimensional friction ridge skin is captured in a two-dimensional image.
- 6.1.2 Understanding of the function and use of image capture to include:
 - 6.1.2.1 Types of friction ridge recordings (e.g. rolled, flat, simultaneous, palm).
 - 6.1.2.2 Methods of friction ridge capture (e.g. ink, live scan).
 - 6.1.2.3 Types of capture devices (e.g. live-scan, flatbed, camera).
 - 6.1.2.4 Point of capture variables (e.g. condition of fingers, condition of platen, rolling speed, movement).
 - 6.1.2.5 Control measures needed to achieve quality friction ridge images (e.g. scan resolution, compression rate, equipment maintenance, calibration).
 - 6.1.2.6 Procedures for addressing amputations, temporary injuries, skin conditions, and rescans.
- 6.1.3 Understanding of the function and use of Automated Fingerprint Identification Systems (AFIS) to include:
 - 6.1.3.1 AFIS process related to acquisition, classification, searching, storage, retrieval, identification, and final reporting of friction ridge records.
 - 6.1.3.2 Friction ridge search criteria (e.g. designated finger search, how many fingers, palm areas).
 - 6.1.3.3 Importance of quality assurance on maintaining the integrity of friction ridge data.
 - 6.1.3.4 Quality controls that ensure completeness, image quality, and data integrity.
- 6.1.4 Gain a working knowledge of the NEC Automated Fingerprint Identification System (AFIS) Global Workstation Latent (GWS-L) and the Intergraded Automated Fingerprint Identification System (IAFIS) to include:
 - 6.1.41 Who handles component maintenance and calibration.
 - System requirements and limitations including text data fields, fingerprint and palm print quality, finger sequence and image replacement, image rotation, and toleration for pattern interpretation.
 - 6.1.4.3 Minutia recognition, placement, rotation, ridge counts, and other minutiae factors related to searching and matching.
 - 6.1.4.4 Limitations of system interoperability.
 - 6.1.4.5 Integration of friction ridge image, mug shot, scars, marks, tattoos, minutiae, other biometrics, as well as personal descriptors, and criminal history information.

6.1.4.6 Search parameters, pattern classification and referencing, minutiae extraction, search algorithms, significance in the range of candidate scores, threshold scoring, and candidate list comparisons. matching. 6.1.4.7 AFIS search capabilities in regards to latent print vs. ten print, ten print vs. latent print, latent print vs. latent print, ten print vs. ten print, and palm print vs. palm print. 6.1.4.8 "Lights out" processing of searches (i.e. mobile search capabilities). 6.1.4.9 Logical search progression (i.e. state, regional, national). 6.1.4.10 Filtering criteria used to establish logical candidates (e.g. finger position, sex, classification, race, offense, geographic location). 6.1.4.11 Search result contents (e.g. ranked order, unique identifier, finger or palm position). 6.1.4.12 Differences between AFIS digital images and original friction ridge impressions (e.g. potential loss of quality due to compression of image, monitor resolution, capture resolution). 6.1.4.13 Printer technology limitations vs. examinations from original friction ridge documents (e.g. paper quality, inked fingerprint cards). 6.1.4.14 AFIS processes related to latent print searches. 6.1.4.15 Various search options among databases within the system (e.g. image, feature). 6.1.4.16 Manual and automatic encoding of minutiae. 6.1.4.17 File penetration benefits and liabilities of partial vs. full data base searches. Record authentication processes (e.g. correct association of name, 6.1.4.18 unique identifier, friction ridge images, and criminal history record). 6.2 Required Reading: Trainee / Completion Date 6.2.1 Scott's Fingerprint Mechanics Robert D. Olsen Sr. Chapter 8, Section 111 "Computer Identification of Latent Fingerprints" Pages 355-357. 6.2.2 Criminalistics, 9th edition Richard Saferstein, Chapter 14, "AFIS" Pages 436-438. 6.2.3 Advances in Fingerprint Technology 2nd edition Lee, Gaensslen,

Chapter 8, AFIS" Pages 275-321.

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6.2.4	NEC Use 6.2.4.1	r Guides GWS–NSW	/
	6.2.4.2	GWS-L	
	6.2.4.3	GWS-L Quick Reference Guide	
	6.2.4.4	GWS-L Update Difference Quick Reference Guide	
	6.2.4.5	NEC ELMA Best Practices	<u> </u>
6.2.5	•	A Latent Print Examiner's Guide to I, Vol. 57, No. 4, 2007.	service !
	ecture: 3.1 The analyst shall complete an approved AFIS training course. The on-line AFIS training course sponsored by West Virginia University is the current approved course. If a previously approved course becomes unavailable, the Latent Section Supervisor will choose or design a new course that meets the training module requirements. Course Completed: Date: Date: Attach copy of certificate		
6.5	Unit Exan	ns / Competency Test:	Reviewer / Date / P or F
6.5.1	Module 6 Assessme		

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6.5.2	AFIS Competency Test: The analyst will prints through the Automated Fingerprin test prints may consist of palm prints, low non-matching prints.	t Identification System.	. Competency
6.5.3	The analyst shall generate a list of AFIS and provide sample answers to those que court of law.		
6.6	Sign Off of Module 6:	Supervisor / Con	npletion Date
		Selvi	
7 Recording Inked Fingerprints, Palm Prints, and Footprints			

- 7.1 Objectives:
 - 7.1.1 Understanding of the various methods for recording known friction ridges for criminal history or personal identification including:
 - 7.1.1.1 Introductory knowledge of chemical (inkless) systems for recording friction ridges.
 - 7.1.1.2 Introductory knowledge of recording friction ridge detail using printer's ink.
 - 7.1.1.3 Introductory knowledge of recording friction ridge detail using the black powder/adhesive lift (Handiprint) method.
 - 7.1.1.4 Introductory knowledge of electronic capture systems (Live Scan) for recording friction ridges.
 - 7.1.2 Understanding of the quality of friction ridge detail produced by each method.
 - 7.1.3 Understanding of the benefits associated with obtaining victim/elimination prints and complete friction ridge exemplars (major case prints).
 - 7.1.4 Understanding of the proper method of completing fingerprint and palm print card information, sequence for recording fingers, and method of printing plain impressions.
 - 7.1.5 Demonstrate ability to properly use ink and roller to record fingerprints, palm prints, and footprints (including equipment maintenance).
 - 7.1.6 Demonstrate ability to properly record complete friction ridge exemplars (major case prints).

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7.2	Required Reading	Trainee / Completion Date
7.2.1	Scott's Fingerprint Mechanics, by Robert D. Olsen Sr. Chapter 2, "Taking Finger, Palm, and Footprints." Pages 55-101.	
7.2.2	Fingerprint Techniques, by Andre A. Moenssens. Chapter 5, "Recording Prints." Pages 137-145. 157.	<u> </u>
7.2.3	Prints." Pages 137-145. 157. The Science of Fingerprints, FBI. Chapter 9, "Techniques for Taking Good Fingerprints." Pages 111-115. Chapter 10, "Problems in Taking Inked Fingerprints." Pages 116-128. Finger Prints, Palm and Soles, by Harold Cummins, Charles Midlo. Chapter 3, "Methods of Printing." Pages 45-55.	sic service
7.2.4	Inked Fingerprints." Pages 116-128. Finger Prints, Palm and Soles, by Harold Cummins, Charles Midlo. Chapter 3, "Methods of Printing." Pages 45-55. Friction Ridge Skin, by James F. Cowger. Chapter 2, "Taking Inked Prints." Pages 9-33. Latent Print Section AM Sections 9.7	NEM /
7.2.5	Friction Ridge Skin, by James F. Cowger. Chapter 2, "Taking Inked Prints." Pages 9-33.	
7.2.6	Latent Print Section AM Sections 9.7	
7.2.7	The Fingerprint Sourcebook by Scientific Worki Group on Friction Ridge Analysis, Study and Technology (SWGFAST), et al. Chapter 4: Recording Living and Postmortem Friction Ridg Skin Exemplars. Available on line from the USD	ng e
7.3 7.3.1	Practical Exercise Rolling Inked Prints	Trainer / Date / P or F
7.3.2	Taking Major Case Prints (including foot prints)	
7.3.3	Black Powder Adhesive Lift Method	
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7.3.4	Familiarity with live scan terminal and production of a live scan fingerprint card	
7.4 7.4.1	Unit Exam: Module 7: Assessment Test	Supervisor / Date / P or F
7.5	Sign Off of Module 7:	Supervisor / Completion Date
8 Reco	ding Post-mortem Exemplars	Sel
8.1 8.1.1	Objectives: Understanding of the procedures and equipmed deceased persons.	ent used in fingerprinting
8.1.2	Understanding of the effects and conditions decomposition.	of rigor mortis and stages of
8.1.3	Understanding of the legal considerations an fingers or hands and subsequent preservation	
8.1.4	Understanding of the disaster squad services Fingerprint Section.	s available from the FBI, Latent
8.1.5	Understanding of equipment maintenance ar involving body fluid contamination, accidenta	
8.2	Required Reading Tr	rainee / Completion Date
8.2.1	Friction Ridge Skin, by James F. Cowger. Chapter 2, "Printing the Deceased." Pages 28-33.	
8.2.2	The Science of Fingerprints, FBI, Chapter 11, "Problems and Practices in Fingerprinting the Dead." Pages 129-156.	/

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8.2.3	Fingerprint Techniques, by Andre A. Moenssens. Chapter 5, "Postmortem Fingerprinting." Pages 145-150.	
8.2.4	Scott's Fingerprint Mechanics, by Robert D. Olsen Sr. Chapter 2, Section 30, "Postmortem Fingerprinting." Pages 84-89.	
8.2.5	The Fingerprint Sourcebook by Scientific Wo Group on Friction Ridge Analysis, Study and Technology (SWGFAST), et al. Chapter 4: Recording Living and Postmortem Friction Ri Skin Exemplars. Available on line from the U	idge vices
8.2.6	Paper – "Using Fingerprint Powder to Record Friction Ridge Details form a Cadaver." JFI, Vol. 59, No. 3, 2009	No. 7
8.2.7	Paper – "The Boiling Technique: A Method for Obtaining Quality Postmortem Impressions from Deteriorating Friction Ridge Skin." JFI, Vol.57, No. 3, 2007.	Jule 1
8.2.8	Paper – "Obtaining Fingerprint and Palm prin Impressions for Decomposed Bodies or Burn Victims Using the Mikrosil Casting Method." JFI, Vol. 55, No. 4, 2005.	nt/
8.3 8.3.1	Practical Exercises: Taking prints using post mortem spoon (mock exercise)	Trainer / Date / P or F
8.3.2	Injecting post mortem prints (mock exercise)	
8.3.4	Assist with post mortem prints in the lab or at autopsy	Case # / Trainer / Date

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8.4 8.4	1.1	Unit Exam: Module 8: Assessment Test	Supervisor / Date / P or F
8.5		Sign Off of Module 8:	Supervisor / Completion Date
9 Se	ctic	ons and Services of a Forensic Laboratory	ices
9.1 9.1	1.1	Objectives: Understanding of other forensic disciplines to firearms/tool marks, fire debris, drug chemistr toxicology, breath alcohol, trace evidence, and	y, biological screening, DNA,
9.1	1.2	Understanding of the capabilities, basic operawhich latent print procedures interface with: 10.1.2.1 Forensic Document Examination 10.1.2.2 Firearms and Tool marks 10.1.2.3 Chemistry/Toxicology 10.1.2.4 Biology/DNA 10.1.2.5 Microanalysis/Trace Evidence 10.1.2.6 Shoe print/tire track	ating procedures, and manner in
9.1	1.3	Understanding of the potential for loss, contar other types of forensic evidence (indented has when more than one discipline is to process the ability to preserve other types of forensic evid prints.	nd writing, body fluids, etc.) ne same item of evidence. An
9.1	1.4	Understanding of the proper procedures for correspondence, and packaging of evidence to regional laboratories.	
9.2 9.2	2.1	Required Reading: Criminalistics, 9th edition Richard Saferstein, Chapter 1 "Introduction" pgs. 2-25	

9.2.2	Criminalistics, 9th edition Richard Saferstein, Chapter 8 "Hairs, Fibers, and Paint" pgs. 208-239	***************************************	1
9.2.3	Forensic Science an Introduction to Criminalistics, by Deforest, Gaensslen, & Lee. "Handwriting" 366 – 370.		
9.2.4	Criminalistics, by Richard Saferstein. Chapter 13, "DNA".	6	1
9.2.5	Death Investigation Handbook by Louis N. Eliopulo Chapter 67 "Forensic Odontology Pages 679 – 693.	services	_/
9.2.6	Criminalistics 9 th edition		
9.2.7	Criminalistics, 9 th edition Richard Saferstein, Chapter 9, "Drugs" Pages 246-277.		
9.2.8	Richard Saferstein, Chapter 15, "Firearms, Tool Marks, and Other Imp Pages 458-495. Criminalistics, 9 th edition Richard Saferstein, Chapter 9, "Drugs" Pages 246-277. Criminalistics, 9 th edition Richard Saferstein, Chapter 10, "Ferensic Toxicology" Pages 278-309. Criminalistics, 9 th edition		
9.2.9	Criminalistics, 9 th edition Richard Saferstein, Chapter 16, "Document and Voice Examination" Pages 496-521.		
9.2.10	Criminalistics, 9 th edition Richard Saferstein, Chapter 11, "Forensic Aspects of Arson and Explo Pages 310-342.	sion Investiga	tions" _/

9.3 Practical Exercises:

9.3.1 Shadowing of Intra-laboratory Sections or Review of Section Power Points:

			Title	of Power Point / Date
	9.3.1.1	Biology Screening		
	9.3.1.2	Breath Alcohol		
	9.3.1.3	DNA		
	9.3.1.4	Drug Chemistry		_dice
	9.3.1.5	FES	. (501
	9.3.1.6	Shoeprint/Tire Track	ansil	
9.3.2	Review of	Firearms/Tool Marks Fire Debris Toxicology	ver Points:	Trainee/Completion Date
	9.3.2.1	Firearms/Tool Marks	er Ja	
	9.3.2.2	Fire Debris	000	
	9.3.2.3	Toxicology	,	
9.4Unit E 9.4.1	Exam: Module 9 Assessm	ent Test	Super 	visor / Date / P or F
9.5	Sign Off	of Module 9:	Supervisor	/ Completion Date

10 Introduction to Latent Prints and Crime Scenes

10.1 Objectives:

10.1.1 General knowledge of the science of fingerprints to include processing, comparison and crime scenes.

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Employee Shadowed / Date

10.1.2	Understanding of the services offered by the Latent Print Section including evidence processing, comparison, post mortem/elimination fingerprinting, AFIS, and clan lab/crime scene response.			
10.1.3	Understand the documentation requirements for latent print processing both in the lab and at scenes.			
10.1.4	An understanding of the professional duties, moral obligations, and code of ethics for Latent Print Examiners.			
10.1.5	An understanding of the personal safety hazards posed by blood borne pathogens (AIDS virus, hepatitis, etc.) present on body fluid contaminated evidence that is to be processed for latent prints. Knowledge shall include proper work area disinfection, procedures for handling needles and sharps, and use of personal protective equipment, clothing, gloves, etc.			
10.1.6	Introductory knowledge of various crime scene including commonly prescribed searching sequents.).	search techniques, ences (grid, spiral, strip,		
10.2	Required Reading	nee / Completion Date		
10.2 1	including commonly prescribed searching sequenter.). Required Reading The Science of Fingerprints, by FBI. Chapter 13, "Latent Impressions." Pages 170-172.			
10.2.2	Friction Ridge Skin, by James F. Cowger. Chapter 4, "The Evidence Print." Pages 71-109.			
10.2.3	Criminalistics, by Richard Saferstein. Chapter 14, "Fingerprints." Pages 408-413.			
10.2.4	Fingerprint Techniques, by Andre A. Moenssens. Chapter 4, "Latent Prints." Pages 102-106.			
10.2.5	Scott's Fingerprint Mechanics, by Robert D. Olsen, Sr. Chapter 3, "Latent Fingerprints and Crime Scene Procedures." Pages 111-151.			

	10.2.6	Forensic Science an Intr Criminalistics, by Defore & Lee. Chapter 2, "Gene Procedures. Pages 416	st, Gaensslen, ral Crime Scene	
	10.2.7	Latent Print Section AM	Section 12	
	10.2.8	The Fingerprint Sourcebe Group on Friction Ridge Technology (SWGFAST) Documentation of Frictio From the Scene to the C on line from the USDOJ	, et al. Chapter 10; n Ridge Impressions	ervices
	10.2.9	SWIGFAST Standard Fo Evaluation, and Verificati	r The Documentation of A on (ACE-V) (Latent) of Ethics and Standards of as published by the IAI.	Analysis, Comparison,
	10.2.10	ASCLD/LAB Appendix A	Solice riet MEZ	
()	10.3 Practica 10.3.1 Lo	al Exercise: ocate and read the "Code" for latent print examiners	of Ethics and Standards of as published by the IAI. Trainee /	f Professional Conduct" Completion Date
	10.3.2 Pr	oper marking of evidence	Trainer / Date /	P or F //
	10.4 Unit Ex 10.4.1	am: Module 10: Assessment Test	Superviso	or / Date / P or F
	10.5 Si	gn Off of Module 10:	Supervisor / Co	ompletion Date
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11 Analysis, Comparison, Evaluation, and Verification (ACE-V)

11.1 Objectives:

- 11.1.1 Understanding of scientific methodology and its application to friction ridge examination, and the ability to analyze fragmentized friction ridge detail to determine its value (comparison/identification, value/no value).
- 11.1.2 Understanding of friction ridge characteristics (dots, ridge endings, and bifurcations) the varying definitions/interpretations assigned to combinations of those three ridge characteristics, and how they may be utilized in effecting identification.
- 11.1.3 Understanding of the value of incipient ridge characteristics for use in latent print comparison/individualization.
- 11.1.4 Understanding of the importance of elimination prints and the necessity for completing "elimination" comparisons before AFIS processing of latent prints.
- 11.1.5 Ability to recognize and utilize ridge flow configurations (size, pattern, focal points, etc.), scars, creases, and other friction ridge characteristics to support latent print examination.
- 11.1.6 Ability to recognize, and if possible determine the area from which the latent fingerprints, palm prints, and foot/toe prints originated.
- 11.1.7 Understanding of the nature of color reversals (entire print) and changes (within the same print) and the ability to properly analyze these occurrences when they are encountered in latent print comparisons.
- 11.1.8 Understanding of the effects of pressure distortion, slippage, overlays, preand post- deposit artifacts (surface scratches, soil, brush strokes, etc.), and the ability to properly analyze such disturbances/distortion.
- 11.1.9 Understanding that different policies and standards exist regarding what constitutes friction ridge individualization in the U.S. and other countries and why no minimum "number" of matching ridge characteristics can be defined to effect an identification (i.e., positive opinion based on personal empirical experience in examining and comparing latent prints).
- 11.1.10 Ability to recognize simultaneous (cluster) impressions and an understanding of their value for identification.

- 11.1.11 Ability to analyze friction ridge details to determine the value for comparison.
- 11.1.12 Demonstrate the ability to properly conduct a comparison.
- 11.1.13 Understanding of what constitutes a valid identification and the ability to render an accurate conclusion.
- 11.1.14 Understanding of the necessity for verification by another qualified latent print examiner.
- 11.1.15 Understand the role of quality assurance measures in friction ridge examination.
- 11.1.16 Awareness of the impact(s) resulting from an erroneous conclusion.
- 11.1.17 Have an awareness of basic statistical models and the potential for their integration into the current friction ridge identification procedures

11.2 F	Required Reading	Trainee / Completion Date
11.2.1		
11.2.1	by David R. Ashbaugh. Chapters 4 and 5,	
	IV "The Identification Process" Pages 87-148	
	V "Poroscopy and Edgeoscopy" Rages 149-16	4
	v Potoscopy and Edgeoscopy Rages 149-104	' ,
11.2.2	Friction Ridge Skin, by James F. Cowger.	
11.2.2		,
	Pages 129-206	
44.0.0		
11.2.3	Finger Prints, Palms and Soles, by	,
	Harold Cummins and Charles Midlo.	
44.0.4		
11.2.4	Scott's Fingerprint Mechanics, by	
	Robert D. Olsen Sr.	,
<	Pages 5-46, 171-175.	
4405		
11.2.5	Fingerprint Techniques, by Andre A.	
	Moenssens. Pages 27-63, 86-88,	
4400	252-293, 294-301.	
11.2.6	0 1	
	by Lee & Gaensslen. Pages 39-56.	
4407		
11.2.7	Demystifying Palm Prints	,
	packet, by Ron Smith.	
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11.2.8	Latent Print Section AM Section 12.	***************************************	<u></u>
11.2.9	Fingerprints and Other Ridge Skin Impressions By, Champod, Lennard, Margot, Stoilovic Pages 21-28.	- Company of the Comp	<u> </u>
11.2.10	Paper – "Detection of Forged and Fabricated Latent Prints" Pat A. Wertheim, JFI Vol. 44, No. 6. 1994		
11.2.11	Paper – "The Ability Equation" Pat A. Wertheim	:.ce5	/
11.2.12	Paper – "Forensic Individualization of Images Using Quality and Quantity of Information." John Vanderkolk, JFI, Vol. 49. No. 3, 1999.	services	<u></u>
11.2.13	Paper – "ACE-V and the Scientific Method." JFI Vol. 60 No.1, 2010	7	1
11.2.14	Paper – "Scientific Comparison and Identification of Fingerprint Evidence." Pat. Wertheim. Fingerprint Whorld Vol. 26, No. 101, July 2000.	on	/
11.2.15	Paper – "Distortion Versus Dissimilarity in Friction Skin Identification." William Leo. JFI, Vol. 48, No. 2, 1998.		
11.2.16	Paper – "A Performance Study of the ACE-V Process: A Rilot Study to Measure the Accuracy, Precision, Reproducibility, Repeatability, and Biasability of Conclusions Resulting from the ACE-V Process." JFI, Vol. 59, No. 2, 2009.		1
11.2.17	Paper - "Incipient Ridges and the Clarity Spectrum" David R. Ashbaugh. JFI Vol.42. No. 2 1992		<u></u>
11.2.18	Paper – "Level 3 Details and Their Role in Fingerprint Identification: A Survey among Practitioners." JFI, Vol.58. No. 5, 2008.		J

11.2.19	Paper – "The Etiology of ACE-V and Use: An Exploration of the Relations ACE-V and the Scientific Method of Testing." JFI, Vol. 56 No. 3, 2006.	ship Between	
11.2.20	Paper – "Palmar Flexion Crease Ide David R. Ashbaugh Identification Ca Jan/Feb/March 1992		
11.2.21	Paper – "Coins in the Pocket: A Sim Explanation of Quantitative – Qualita Friction Ridge Analysis." JFI, Vol. 58 No. 3, 2005.	ative	,5
11.3	Lecture:	:(0	
11.3.1	The analyst shall complete an appro Techniques training course. The cou		
	Course Completed:	60 CO.71	
	Date:Attach copy of certificate	EINE JULIE	
11.3.2	The analyst shall complete an appro Comparison Course training course hours.	JVEU AUVANCEU NICUEU	logy/Complex minimum of 40
	Course Completed: Date: Attach copy of certificate		
11.3.3	The analyst shall complete an approcue	oved Palm Print training urs.	g course. The
	Course Completed:	The state of the s	***************************************
	Date: Attach copy of certificate		
11.4	Practical Exercises "48 comparisons"	Examiner /	Coach
		Issuing Authority: Quali Training Manual Lat	

·		ency tests lete 10 r	Name of Tes	t Date	e Completed	1
11.5	Unit Exan	n/Competency Tests	3 :	Cupomioor	/ Data / Dia	-
11.5.1	Of val	n of Latent Prints eva ue for comparison ue for exclusion only		Supervisor 100 latent p		
		0 latent prints into careas of palm or foot	print)	Supervisor	/ Date / P o	r F
11.5.3	Comparis	on Competency Tes	st	205101	/	
11.5.4	Module 1 Asses	1: sment Test	iice se	COPY		
11.6	-	of Module 11:	Rollice Local	Supervisor	/ Completic	on Date
12 12.1 Alter	Latent Pr nate Light	int Processing Source (ALS) Detec				
12.1.1	Objective	s:of mos)*			
<	12.1.1.1	Understanding of th Alternate Light Soul of latent print develo	rces (ALS) and	fety hazards d other non-	s associated destructive	d with methods
·	12.1.1.2	Understanding of dy ALS processing.	ye stain proce	dures used	for post-cya	ınoacrylate
	12.1.1.3	Understanding of chainhydrin ALS proce		cement pro	cedures use	ed for post-

12.1.1.4 Understanding of equipment maintenance relative to ALS detection of latent prints.

Rev. 5 Issued 8-17-2010 Issuing Authority: Quality Manager Training Manual Latent Section Page 32 of 61 12.1.1.5 Knowledge of luminescence, fluorescence, inherent luminescence, light wavelengths, band-pass filters, and light delivery systems as they relate to ALS detection of latent prints.

12.1.2. Requ	ired Reading	Trainee / Completion Date
12.1.2.1	Friction Ridge Skin, by James F. Cowger. Pages 106-107.	
12.1.2.2	Scott's Fingerprint Mechanics, by Robert D. Olsen Sr., Pages 185-187, 229-231, 347-348.	services /
12.1.2.3	Advances in Fingerprint Technology, Lee & Gaensslen. Pages 89-91, 104, 115-124, 135-159.	200
12.1.2.4	An Introduction to Lasers, Forensic Lights, and Fluorescent Fingerprint Detection Techniques, by A. Roland Menzel.	
12.1.2.5	Latent Print Section AM Section 8.1.	
12.1.2.6	Criminalistics, by Richard Saferstein. Chapter 14, Pages 440-441.	
12.1.2.7	Applicable ALS User Manuals	/
12.9.2.8	Krimesite Imager User's Manual/Video	o/
Alterr Exam RUVI	ical Exercises Trainer / Danate Light Source Examination ination (ALS) S Application, Examination, and ervation	ate / P or F//
Inher	ent Luminescence Visualization	

12.2 Powder Development of Latent Prints

12.2.1 Objectives:		
12.2.1.1	Understanding of the basic types of brushes and their composition.	
12.2.1.2	Understanding of surfaces and environmental factors determining brush type, powder type, and color selection.	
12.2.1.3	Understanding of the proper procedures for using different types of hair, fiberglass, and magnetic brushes.	
12.2.1.4	Understanding of equipment maintenance relative to powder development of latent	
12.2.1.5	Knowledge of lifting tape, gel lifters, hing	e lifters, etc.
12.2.2 Required	Reading:	rainee / Completion Date
12.2.2.1	The Science of Fingerprinting, by FBI. Chapter 14, "Powdering and Lifting Latent Impressions." Pages 173-174	
12.2.2.2	Friction Ridge Skin, by James F. Cowger Chapter 4, "The Evidence Print" Pages 78-85.	·
12.2.2.3	Advances in Fingerprint Technology, by Lee & Gaenssien. Chapter 3, "Methods of Latent Fingerprint Development." Pages 59-65.	
12.2.2.4	Fingerprint Techniques, by Andre A. Moenssens. Chapter 4, "Latent Prints." Pages 106-114.	
12.2.2.5	Scott's Fingerprint Mechanics, by Robert A. Olsen, Sr. Chapter 5, "Latent Fingerprint Powder Techniques." Pages 209-235	
12.2.2.6	Fingerprint and the Law, by Andre A. Moenssens. Chapter 2, Page 24.	

	12.2.2.7	Techniques of Crime Scene Investigation, 5 th edition. B. Fisher. Pages 101-104, 112, 115.
	12.2.2.8	Latent Print Section AM Sections 9.3 & 9.4/
	12.2.2.9	Recovery of Latent Prints from Human Skin From the JFI, Vol. 55, No. 3, 2005
	12.2.2.10	Paper – "Evaluation of Fingerprint Powders." JFI, Vol. 56, No. 2, 2006.
	12.2.2.11	Paper – "The Effects of Differential Cyanoacrylate Fuming Times on the Development of Fingerprints on Skin." JFI Vol. 59, No. 5, 2009.
1	12.2.3 Praction	cal Exercises:
	12.2.3.1	Trainer led orientation of powder processing Trainer / Date (Standard, magnetic, Bi-chromatic, and fluorescent)
	12.2.3.2	Lifting Trainer led orientation of lifting techniques (Various tapes (clear, frosted, 3-M) Mikrosil & Accutrans, Gel and hinge lifts, casting mediums, gel lifts, etc.
	12.2.3.3	Processing Bodies for Latent prints (mock exercise)
	12.2.3.4 ×	Latent Fingerprint Processing/Chemical Techniques 40 hrs.
	brober	

12.3 General Chemical Development of Latent Prints

12.3.1 Objectives:

12.3.1.1 Understanding of safety hazards associated with each of the chemicals used for development of latent prints in the ISP FS Latent Section. Knowledge shall include proper disposal, spill procedures/equipment, and the use of personal protective equipment.

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12.3.1.2	Understanding of latent print residue cor different chemical development procedu	
12.3.1.3	Understanding of effects of various solve (inks, plastics, varnishes, etc).	ents on evidence surfaces
12.3.1.4	Understanding of surface and environme selection and sequencing of chemical de	
12.3.1 12.3.1 12.3.1 12.3.1 12.3.1 12.3.1 12.3.1 12.3.1 12.3.1	1.5.7 Dye Stain Solutions (Rhodamine 6G 1.5.8 Small Particle Reagent 1.5.9 Sticky-Side Powder 1.5.10 Sudan Black 1.5.11 Cyanoacrylate Furning 1.5.12 Leucocrystal Violet (LCV) Understanding of equipment maintenance development of latent prints.	Services Ardrox, RAM)
12.3.2.1	Manual of Pirigerprint Development Techniques, by Home Office Police Science Development Branch, London.	
12.3.2.2	The Science of Fingerprints, FBI. Chapter 15, "Chemical Development of Latent Impressions." Pages 175-186.	
12.3,2.3	Fingerprints and the Law, by Andre A. Moenssens. Chapter 2, Pages 24-26.	
12.3.2.4	Fingerprint Techniques, by Andre A. Moenssens. Chapter 4. Pages 114-126.	/
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12		Investi	iques of Crime Scene gation, 5 th edition, by ner. Page 124.	
12.4 S _f	oecific (Chemic	cal Techniques	
12.4.1 12		Black Requir	ed Reading	Frainee / Completion Date
	12.4.1.		Scott's Fingerprint Mechanics, by Robert D. Olsen, Sr. Chapter 7, "Techniques for Latent Prints in Blood." Pages 323-324.	dices /
	12.4.1.		Advances in Fingerprint Technology by Lee & Gaensslen. Chapter 3 "Enhancement of Bloody Finger Pages 83-87.	O Total
	12.4.1.		Paper – "Summary of Experimen of Fingerprint Processing and Fir based DNA Typing Profiles."	
	12.4.1.		Paper – "Chemical Enhancemen An Evaluation of Methods, Effect of Chemical Hazards."	
	12.4.1.	1.5	Paper – The Effect of Common I Techniques on the DNA Typing of Different Surfaces. JFI, Vol. 54, N	of Fingerprints Deposited on
O'	12,4.1.	.1.6	Paper – Presumptive Testing for Developed with Amido Black."	Blood on a Patent Print
*	12.4.1.		Paper – "Deposition of Bloody Fr JFI, Vol. 58, No. 3, 2008	iction Ridge Impressions."
	12.4.1.		Paper – "Developing Fingerprints Several Chemical Techniques." \	•

12.4.1	1.1.3 Latent Print Section AM Section 10.1.	
12.4.1.2	Practical Exercises Locate and Read MSDS-Amido Black	Trainer / Date / P or F
	Mixing of Amido Black	
12.4.2 DFO	Amido Black Application, Examination, and Preservation	Services 1
12.4.2.1	Required Reading	Frainee / Completion Date
	 12.4.2.1 Paper – "The Effectiveness of Formulations and Comparison diazafluoren-9-one for Fingero 59, No. 6, 2009. 12.4.2.2 Paper → "Spectral Variations for Formed Between Different Amin mark Detection Reagents on a Substrates. JFI, Vol. 59, No. 3, 	with HFE-Based 1, 8- rint Development." JFI Vol. /
12.4.2.3 Latent Print Section AM Section 10.3.		
610be	12.4.2.4 Fingerprints and Other Ridge S by, Champod, Lennard, Margot, a Pages 128-131.	•
	12.4.2.5 Locate and Read MSDS-DFO	Trainer / Date / P or F
	12.4.2.6 Mixing of Chemical	

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12.4.2.7 Application, Examination Preservation	ı, and //
12.4.3 Gentian Violet/Crystal Violet	
12.4.3.1 Required Reading	Trainee / Completion Date
12.4.3.1.1 Advances in Fingerprir by Lee, Gaensslen. Pages 70, 86, 88-89, 154.	nt Technology
12.4.3.1.2 Paper – "Development Surfaces by Dye Sta	of Latent Fingerprints on Sticky aining or Fluorescent Brightening."
12.4.3.1.3 Latent Print Section	AM Section 10.4.
by, Champod, Lenn	her Ridge Skin Impressions ard, Margot, and Stoilovic . /
12.4.3 12 Locate and Read MSD	Trainer / Date / P or F
12.4.3.1.6 Mixing of Chemical	
12.4.3.1.7 Application, Examination	on, and Preservation //
2.4.4 lodine Fuming	
12.4.4.1 Required Reading	Trainee / Completion Date
12.4.4.1.1.The Science of Fingerprints, FBI. "lodine Method." Pages 175-177.	
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by Lee, Gaensslen. Pages 60, 65-67, 89.	
12.4.4.1.3Scott's Fingerprint Mechanics, by Robert D. Olsen Sr. Pages 243-256.	,
12.4.4.1.4Friction Ridge Skin, by James F. Cowger. Pages 93-96.	
12.4.4.1.5 Latent Print Section AM Section 9.2.	- enices
12.4.4.1.6 Locate and Boad MSDS Jodina	Trainer / Date / P or F
12.4.4.1.6 Locate and Read MSDS-lodine	7'
12.4.4.1.7 lodine chamber	
12.4.4.1.8 Examination and Preservation	
12.4.4.1.8 Examination and Preservation 2.4.4.5 Leuco Crystal Violet	
12.4.5.1 Required Reading	Trainee / Completion Date
12.4.5.1.1 Paper – "Lueco Crystal Violet: A Simple Enhancement Reagent."	, Effective Blood
ity or Michael	Trainer / Date / P or F
12.4.5.1.2 Locate and Read MSDS-LCV	
12.4.5.1.3 Mixing LCV	
12.4.5.1.4 Application, Examination, and Preserva	tion
12.4.6 Ninhydrin 12.4.6.1 Required Reading Trai	nee / Completion Date
12.4.6.1.1 The Science of Fingerprints, by FBI.	
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"Ninhydrin Method." Pages 177-179.
12.4.6.1.2 Advances in Fingerprint Technology, by Lee & Gaensslen. "Fingerprint Development by Ninhydrin and its Analogues." Pages 104-127, 156.
12.4.6.1.3 Scott's Fingerprint Mechanics, by Robert D. Olsen Sr. Pages 273, 276-291.
12.4.6.1.4 Friction Ridge Skin, by James F. Cowger. Pages 96-98.
12.4.6.1.5 Paper – "Procedure to Develop Latent Prints on Thermal Paper"
12.4.6.1.6 Paper – "Latent Fingerprints by a Superior Ninhydrin Method"
12.4.6.1.7 Paper – "Ninhydrin Processing by Pat A. Wertheim"
12.4.6.1.8 Paper - "The Effectiveness of Ninhydrin Latent Prints Verses Physical Developer Latent Prints, with Regards to Climatic Conditions at the Time of Deposition."/
12.4.6.1.9 Paper "Improved Results in the Development of Latent Fingerprints on Thermal Paper." JFI, Vol. 58, No. 4, 2008.
12.4.6.1.10 Paper – "Enhancement of an Insufficient Dye-Formation in the Ninhydrin Reaction by a Suitable Post Treatment Process."
12.4.6.1.11Paper – "Advanced Solvent-Free Application of Ninhydrin for Detection of Latent Fingerprints on Thermal paper and Other Surfaces"

12.4.6.1.12 Paper – "Chemical Fuming: A Practical Method for Fingerprint Development on Thermal Paper." JFI, Vo. 56, No. 3, 2006.
12.4.6.1.13 Latent Print Section AM Section 10.5.
12.4.6.1.14 Fingerprints and Other Ridge Skin Impressions by, Champod, Lennard, Margot, and Stoilovic Pages 115-128.
Trainer / P or F
12.4.6.1.15 Locate and Read MSDS-Ninhydrin
12.4.6.1.16 Mixing of Chemical
12.4.6.1.17 Application, Examination, and Preservation 12.4.7 Physical Developer 12.4.7.1 Required Reading Trainee / Completion Date
2.4.7 Physical Developer
12.4.7.1 Required Reading Trainee / Completion Date
12.4.7.1.1Chemical Formulas and Processing Guide for Developing Latent Prints, by FBI. Pages 35-38.
12.4.7.1.2 Advances in Fingerprint Technology, by Lee, Gaensslen. Pages 37,79-82, 95, 112-113.
12.4.7.1.3 Paper – "Physical Developer" by David Burow
12.4.7.1.4 Paper – "Physical Developer: A Practical and Productive Latent Print Developer."
12.4.7.1.5 Paper – "PD, Maleic Acid and Synperonic N."

12.4.7.1.6 Paper – "The Efficacy of Commercial vs. Noncommercial Physical Developer Solutions and the Sequential Enhancement of Friction Ridge Impressions Using Potassium Iodide." JFI, Vol. 60 No. 1, 2010
12.4.7.1.7 Latent Print Section AM Section 10.6.
12.4.7.1.8Fingerprints and Other Ridge Skin Impressions by, Champod, Lennard, Margot, and Stoilovic Pages 131-133. Trainer / Date / P or F
12.4.7.1.9 Locate and Read MSDS-PD
12.4.7.1.10 Mixing of Chemical //
12.4.7.1.11 Application, Examination, and Preservation
12.4.7.1.11 Application, Examination, and Preservation 12.4.8 Dye Stain Solutions 12.4.8 1 Paguired Pagding Trainge / Completion Date
12.4.6.1 Required Reading
12.4.8.1.2Latent Section AM Section 10.7.
12.4.8.1.3Fingerprints and Other Ridge Skin Impressions by, Champod, Lennard, Margot, and Stoilovic Pages 142-145.
Trainer / Date / P or F
12.4.8.1.4 Locate and Read MSDS-R6g//
12.4.8.1.5 Mixing of Chemical (water base)//
12.4.8.1.6 Mixing of Chemical (methanol base)

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12.4.8.1.7 Application, Examination, and Preservation / /
12.4.9 Small Particle Reagent
12.4.9.1 Required Reading Trainee / Completion Date
12.4.91.2 Advances in Fingerprint Technology by Lee & Gaensslen. Pages 82-83.
12.4.9.1.3 Paper – "Lightning Powder Co. Technical Note Small Particle Reagent"
12.4.9.1.4Paper – "Small Particle Reagent" by Pat A.Wertheim
12.4.9.1.5Paper - "Report of Validation Testing" Sirchie SPR-W by Albuquerque Police
12.4.9.1.6Paper – "Development of Latent Prints Using Titanium Dioxide (TiO2) in Small Particle Reagent, White (SPR-W) on Adhesives." JFI, Vol. 55, No. 3, 2005.
12.4.9.1.7 Latent Print Section AM Section 9.5//
12.4.9.1.8Fingerprints and Other Ridge Skin Impressions by, Champod, Lennard, Margot, and Stoilovic Pages 138, 162.
Trainer / Date / P or F
12.4.9.1.9 Locate and Read MSDS sheets for both Traditional and white SPR//
12.4.9.1.10 Mixing of traditional SPR//
12.4.9.1.11 Application, Examination, and Preservation of traditional SPR//
12.4.9.1.12 Application, Examination, and Preservation of white SPR / /

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12.4.10 Sticky-Side Powder

12	.4.10.1 Requi	_	Trainee / Completion Date
	12.4.10.1.1		to Unraveling Tangled Adhesive of Latent Prints and Recovery of
			/
	12.4.10.1.2	Paper – "Homemade Solut the Adhesive Side of Tape	ion for Processing latent Prints on
	12.4.10.1.3	Paper - "A Black Powder m Tapes."	nethod to Process Adhesive
	12.4.10.1.4	Paper – "Anomalous Resul	Its with Sticky Side Powder."
	12.4.10.1.5	Paper – "Adhesive Tape S	× 0, 2,
	12.4.10.1.6	JH, Vol. 57, No. 5, 2007.	to Separate Adhesive Materials."
	12.4.10.1.7	Paper – "Does CA Ruming Processing?" JFD Vol. 59,	Interfere with Powder Suspension No. 2, 2009.
	12.4.10.1.8	Latent Section AM Section	9.6/
	12.4.10.1.5	Fingerprints and Other Rid by, Champod, Lennard, Ma Pages 161-162.	ge Skin Impressions argot, and Stoilovic /
)	,000		Trainer / Date / P or F
	12.4.10.1.10	Locate and Read MSDS-St	icky Side Powder //
	12.4.10.1.11	Mixing of Chemical	
	12.4.10.1.12	Application, Examination, a	nd Preservation

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12.4.11 Sudan Black

12.4.11.1 Required Reading	Trainee / Completion Date
12.4.11.1.1 Advances in Fingerprint Technology, by Lee & Gaensslen. Page 37.	
12.4.11.1.2 Friction Ridge Skin, by James F. Cow Preserving, and Collecting Evidence Pri	· · · · · · · · · · · · · · · · · · ·
12.4.11.1.3 Latent Section AM Section 10.8.	Trainer / Date / P or F
12.4.11.1.4 Locate and Read MSDS-Sudan Black	5
12.4.11.1.5 Mixing of Chemical	
12.4.11.1.6 Application, Examination, and Prese	rvation //
12.4.12 Super-Glue (Cyanoacrylate Duming)	
12.4.12.1 Required Reading	inee / Completion Date
12.4.12.1.1 Advances in Fingerprint Technology by Lee & Gaensslen. Pages 37, 67-70.	
12.4.12.1.3 Paper – "A Modified Cyanoacrylate Te Neutral Filter Paper for Developing Late	echnique Utilizing Treated ent Fingerprints."
12.4.12.1.4 Paper – "Fivis by 3M – Instructions an	d Notes"
12.4.12.1.5 Paper – "Effects of Cyanoacrylate Pro Trace Analysis"	cessing on Cocaine HCL
12.4.12.1.6 Latent Section AM Sections 10.2.	

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Trainer / Date / P or P
12.4.12.1.7 Locate and Read MSDS-CAE//
12.4.12.1.8 Application of CAE (Chamber method)
12.4.12.1.9 Application of CAE (Fuming wand)//
12.4.12.1.10 Application of CAE (Vacuum Chamber)
12.4.12.1.11 Examination and Preservation/
13 Other Scientific Personal Identification Methods
13.1 Objectives
13.1.1 Understanding of other than friction ridge identification (handwriting, DNA, facial recognition, Iris Scanning, & Odontology).
13.2 Required Reading
13.2.1 Biometrics Overview http://www.biometrics.gov/Documents/biooverview.pdf
13.2.2 Iris Recognition http://www.biometrics.gov/Documents/IrisRec.pdf
13.2.3 Face Recognition http://www.biometrics.gov/Documents/FaceRec.pdf
13.2.4 Vascular Pattern Recognition http://www.biometrics.gov/Documents/VascularPatternRec.pdf
13.2.5 Hand Geometry http://www.biometrics.gov/Documents/HandGeometry.pdf
13.2.6 Forensic Science: An introduction to Criminalistics "Questioned Document Examination" Pages 366 – 370
13.2.7 Forensic Science Handbook Volume 1 2 nd Edition Richard Saferstein Pages 710-717

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13.2.8 Techniques of Crime Scene Investigation 7th edition Barry A.J. Fisher Pages 137-138

13.3 Unit Exam: 13.3.1 Assessment Test	Supervisor / Date / P or F
13.4 Sign off Module 13	Supervisor / Date / P or F
14 Photography of Latent Prints	es S
14.1 Objectives 14.1.1 Understanding of latent print photo	ography to include:
shutter speed 14.1.2.2 Use of lenses and known 14.1.2.3 Use of scales. 14.1.3 Photography of chemically develop 14.1.4 Photography of latent prints develop	ce of cameras and other not. e settings including aperture and owledge of film speed. ced latent prints of various colors, oped with powders. prints (in blood, paint, putty or wax,
14.2 Required Reading	Trainee / Completion Date
14.2.1 Advances in Fingerprint Technolog by Lee & Gaensslen. Pages 63, 93	
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Moenssens. Pages 109-112, 271-273, 150-157, 143, 135, 119-120, 136.	
14.2.3 Scott's Fingerprint Mechanics, by Robert D. Olsen Sr. Pages 369-395, 126-127, 133-135,139-141, 141-151, 175-177, 177-182, 218-219.	
14.2.4Friction Ridge Skin, by James F. Cowger. Pages 76-78, 111-128, 85-88, 90-93, 267.	<u> </u>
14.2.5 Police Photography, by Larry S. Miller.	iice
14.2.6 Techniques of Crime Scene Investigation, 5 th edition, by B. Fisher. Page 113-115.	Sel
14.2.7 Latent Print Section AM Sections 6.	
14.2.8 Forensic Science An Introduction to Criminal by DeForest, Gaensslen & Lee Appendix 3. Pages 426-449.	
14.2.9 Close-up & Macro Photography For Evidence Technicians.	
14.2.10 The Police Photographer's Guide by Jame pages 4-7, 20-23, 31-34, 35-39, 54-55 and	es A McDonald 56-58.
14.3 Practical Photography exercise. 14.3 Camera settings	
74.3.2 Macro Photography	
14.3.3 Crime scene Photography	
14.3.4 Black and White Film Development	
14.4 Unit Exam: 10.4.1 Module 14:	Supervisor / Date / P or F
Assessment Test	
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14.5	Sign Off of Module 14:	Supervisor / Completion Date
15 Dig	gital Imaging	
15.1 C	that relate to digital imaging an	es and limitations of specific technologies d storage of latent and inked prints. ocedures for camera capture and digital intimages.
	15.1.3 Understanding of digital enhan	cement techniques using Adobe Photoshop
15.2 F	15.1.4 Working knowledge of the cur	rent digital imaging system. Trainee / Completion Date
	181, 41, 6	6. Mille Digital Cameras, Pages 132-138.
	15.2.3 Techniques of Crime Scene In by Barry A. J. Fisher Page	
	15.2.4 Advances in Fingerprint Techn by Lee & Gaensslen. Page 267	9,
	15.2.5 Criminalistics 9 th edition An Interpretation by Richard Saferstein. Pages 2	
	15.2.6 FORAY User Manual Forensic Image Tracking Syste and Updates.	om/
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15.5.1	Module 16: Assessment Test		,	,
15.5.2	Competency test on Digital Imaging Syscapture, calibrate, enhance, and docume			
15.6	Sign Off of Module 16:	Supervisor /	Completic	on Date
l6 Evalua	ation and Comparison of Friction ridge	- Impressio	ns Nice	5
16.1 Obje 16.	ctives 1.1 Understand the individual friction ridg pore, and edge definition) for determi details	ge structure ining the exi	(e.g., con stence of	tinuity, texture, individualizing
16.	.1.2 Ability to analyze friction ridge details comparison	to determin	e the valu	ue for
16.	comparison 1.3 Ability to recognize and utilize friction friction ridge details for supporting the	ridge flow, e examinatio	scars, cre on	eases, and other
16.	.1.4 Ability to recognize and properly dete which the friction ridges originated	ermine, whe	n possible	e, the area from
16.	.1.5 Knowledge of how to properly analyz understand effects such as processir distortion, slippage, and overlays	e friction rid ng technique	ge impres , color rev	ssions and versal, pressure
16.	.1.6 Ability to properly conduct a compari	son		
16	A.Y Ability to render a proper and accura	te conclusio	n	

16.1.8 Understand the practice and purpose of verification by another competent

16.1.9 Understand the role of quality assurance measures in friction ridge

friction ridge examiner

examination

- 16.1.10 Knowledge of various methods used to record known friction ridge impressions and the ability to properly evaluate ridge structure based on each method
- 16.1.11Knowledge of alteration and mutilation of friction ridge skin
- 16.1.12 Knowledge of genetic abnormalities of friction ridge skin (e.g., dysplasia, cuspal patterns, dissociated ridges)
- 16.1.13 Knowledge of the benefits associated with obtaining elimination prints and complete friction ridge exemplars
- 16.1.14 Knowledge of simultaneous or adjacent friction ridge impressions and their value for examination
- 16.1.15 Awareness that different policies and standards exist in the United States and other countries regarding friction ridge identification (individualization)
- 16.1.16 Awareness of the impact(s) resulting from an erroneous conclusion

16.2 Required Readings	Trainee / Completion Date
16.2.1 Friction Ridge Skin, by James F Pages 129-206. 16.2.2 Finger Prints, Palms and Soles 6	Bowger /
16.2.2 Finger Prints, Palms and Soles, by Harold Cummins and Charles Midl	
16.2.3 Scott's Fingerprint Mechanics, by Robert D. Olsen Sr. Pages 5-46, 171-175	
16.2.4 Fingerprint Techniques, by Andre A Moenssens. Pages 27-63, 86-88, 252-293, 294-301.	A/
16.2.5 Advances in Fingerprint Technolog by Lee & Gaensslen. Pages 39-56	
16.2.6 Latent Print Section AM Section 1	2/
16.2.7 Paper- Fingerprints What They Ca By Allan McRoberts "The Print" Vo	

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16,3 Practical Exercises:	Examiner /Trainer
16.3.1 Latent print evaluation ex 16.3.1.1 Patterns	ercise/
16,3.1.2 Print orientati	on <u>/</u>
16.3.1.3 Difficult prints	
17 Latent Print Section Case Manageme	ent and Reporting
maintaining chain of custody 17.1.2 Understanding of and the ab case file (note taking) records that another qualified Latent and replicate any comparison 17.1.3 Understanding of and the ab reporting latent print examinates	ility to demonstrate proper procedures for ation findings in an accurate, concise, and the various databases needed for report al history records. Trainee / Completion Date
7	commodations and Environmental Conditions
17.2.3 Idaho State Police For Quality Manual 5.8 Ha	rensic Services andling Items of Evidence
17.2.4 Idaho State Police For Quality Manual 5.9.4 Review	rensic Services Technical Review & 5.9.5 Administrative

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	17.2.5	Idaho State Police Forensic Services Quality Manual 5.10 Reporting the Resi	ults /
	17.2.6	Latent Section AM Section 14	
	17.2.7	The Fingerprint Sourcebook by Scientifi Group on Friction Ridge Analysis, Study Technology (SWGFAST), et al. Chapte Quality Assurance. Available on line fro	y and er 12:
17.3 Prac	ctical Exerc	cises:	Trainer / Date / P or F
17.3.1	Introducti	on to Report Writing Drop Downs	Ç
17.3.2	? Evidence	Tracking System (ETS) Orientation	5/1
17.3.3	Writing R	eports (Control of the control of th	
17.3.4	Accessing	g Chain of Custody	
17.3.5	Entering :	Stats State	
17.4 Lect	ure:	aho strollite	Trainee / Completion Date
Co Ex Co	sic ILETS ourse Name am (P/F) ourse/Instru structor:	Date D	
•	Κ. <u> </u>	Competency Tests:	Poviousor / Data / Day F
	Module 1	7:	Reviewer / Date / P or F
		 -	

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17.5 Trainee shall independently produce X3 process Case #	sing case reports
17.6 Trainee shall independently produce 3 comparis Case #	on case reports
18 Court Procedures, Related Laws, and Expert 1	Testimony &
18.1 Objectives 18.1.1 Understand the role of expert witness to 18.1.2 Knowledge of factors regarding the adm	dio
18.1.1 Understand the role of expert witness to	estimony
18.1.2 Knowledge of factors regarding the adm	nissibility of evidence
18.1.3 Knowledge of relevant court cases and	
18.1.4 Understand the rules of discovery and	evidence
18.1.5 Knowledge of applicable legal challenge	es to admissibility
18.1.6 Understand critical challenges to the dis	
18.1.7 An understanding of court exhibit prepa	1
18.1.8 Charting types/methods (points area bi	ubbles, power point)
18.1.8.2 Print selection	ng system to develop court charts
18.1.8.3 Selection of individual ri	age characteristics for charting
18.2 Required Reading	Trainee / Completion Date
18.2.1 Friction Ridge Skin, by James F. Cowger. Pages 207-210.	
18.2.2 Fingerprint Techniques, by Andre A. Moenssens. Pages 270-280.	
18.2.3. Advances in Fingerprint Technology, by Lee & Gaensslen. Pages 242-264.	/

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18.2.4 Fingerprints And The Law, by Andre A. Moenssens, Chapter 3-11. Pages 31-219.	
18.2.5 Effective Expert Witnessing, by Jack V. Matson.	
18.2.6 Law for the Expert Witness, by Daniel A. Bronstein.	
18.2.7 Paper "The Authority of Fingerprint Exper JFI, Vol. 56, No. 6, 2009.18.2.8 Paper – "Why Experts Make Errors." Vol.	certification
18.2.9 Paper – "A Report of Latent Print Examine	isio /
Training Exercises." JFI, Vol. 56, No. 1.,2	006
18.2.10 Paper – "Subjective- The Misused Word 2008	"William Leo. JFI Vol. 58, No. 1,
18.2.11 Paper – "Qualifying as an Expert Finger Questions to Assist in Court Testimony." 2 1990.	Pat A. Wertheim. JFI, Vol. 40, No.
18.2.12. Advances in Fingerprint Technology H. Lee & R. Gaensslen. Chapter 10. Pages 242-259.	/
18.2.13 Executive Summary Strengthening Forei Path Forward By the Committee on Iden Sciences Community, National Research Available on line.	tifying the Needs of the Forensic
18.3 Practical Exercises	
18.3.1 Preparation of Court Exhibits	Trainer / Date / P or F //
18.3.2 Preparation of Curriculum Vitae	
18.3.3 Preparation of Qualifying Questions	// Rev. 5
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18.4 Lectu	ıre: Expert Testimony	-	_/	/	
	tical Exercise: Write a 3-5 page paper on recent court fingerprints	developme S	ents as the Supervisor	ey relate to · / Date / P o	or F
			/		
18.5	1 Write one to two paragraphs for each the arguments/decision/and impact of Analysis.				
	18.5.1.1 Daubert v. Merrel Dow Pharm 18.5.1.2 US v. Byron Mitchell 18.5.1.3 US v. Llera Plaza 18.5.1.4 Mayfield v. United States	اني	<u></u>		
18.5.2	Processing Moot Court	KOKO CO	24		_
18.5.3	Comparison Moot Court	CEL N	7	_/	-
18.6	Unit Exam:	COLL	Supervis	or / Date / P	or F
18.6.1	Module 18: Assessment Test	_			
18.7	Sign Off of Module 18:	Superviso	r / Comple	tion Date	
	Processing Moot Court Comparison Moot Court Unit Exam: Module 18: Assessment Test Sign Off of Module 18:				

19 Student Progress Record

Training Sections

	Dat	te / Initials of Reviewer
1	Laboratory Introduction	
2	Evidence Handling	
3	History and Background of Fingerprint Identification	9 1
4	Biology and Physiology of Friction Ridge Skin	dice
5	Biology and Physiology of Friction Ridge Skin Friction Ridge Pattern Recognition and Interpretation	/
6	Automated Fingerprint Identification System (AFIS)	
7	Recording Inked Fingerprints, Palm Prints, and Footprints	
8	Recording Post-mortem Exemplars	
9	Sections and Services of a Forensic Laboratory	
10	Introduction to Latent Prints and Crime Scenes	
11	Analysis, Comparison, Evaluation, and Verification (ACE-V)	
12	Latent Print Processing	
13	Other scientific personal identification methods	/
14	Photography of Latent Prints	/
15	Digital Imaging	/
16	Evaluation and Comparison of Friction ridge Impressions	
17	Latent Print Section Case Management and Reporting	/
18	Court Procedures, Related Laws, and Expert Testimony	1

Appendix A Recommended Reading for Latent Examiners

Journal of Forensic Identification by The International Association for Identification

Advances in Fingerprint Technology 2nd Edition by Henry C. Lee & R. E. Gaensslen

Quantitative - Qualitative Friction Ridge Analysis, An Introduction to Basic and Advanced Ridgeology by David Ashbaugh

Fingerprint Techniques by Andre A. Moenssens

Fingerprints and the Law by Andre A. Moenssens

Scott's Fingerprint Mechanics by Robert D. Olsen, Sr.

An Introduction to Lasers, Forensic Lights and Fluorescent Fingerprint Detection Techniques by Dr. E. Roland Menzel

Fingerprint, Palms and Soles by Harold Cummins and Charles Midlo

Fingerprints and Other Ridge Skin Impressions
By Christophe Champod et. Al

Criminalistics, An Introduction to Forensic Science 9th edition by Richard Saferstein

Techniques of Crime Scene Investigation 5th edition by Berry A. J. Fisher

Criminal Investigation
Basic Perspectives
by Paul B. Weston & Kenneth M. Wells

Effective Expert Witnessing by Jack V. Matson

Law for the Expert Witness Daniel A. Bronstein

Forensic Image Tracking System Digital Workplace User Manual

Manual of Fingerprint Development Techniques Police Science Development Branch Home Office, UK

Safety Guidelines International Association for Identification

The Science of Fingerprints by the FBI

Safety For the Forensic Identification Specialist 2nd Edition Nancy E. Masters

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Appendix B Additional Recommended Training Courses for Latent Examiners

- 1. Fingerprint Classification 40 hrs.
- 2. Homicide Investigation Techniques Course 40 hrs.
- 2. Clan-Lab Certification Course 40 hrs.
- 3. P.O.S.T. Instructor Development Course 32 hrs.
- 5. International Association for Identification Annual Education Conferences 40 hrs.
- 7. Pacific Northwest Division of IAI meetings and training conferences 24 hrs.

All class hours are approximated

Appendix C Professional Associations and Certifications

Recommended professional association International Association for Identification Pacific Northwest Division International Association for Identification

Professional Certification is required after completion of the ISP FS Latent Section training program and two years of work experience. International Association for Identification Latent Print Certification (CLPE).

Recommend Optional Certifications

a. Certified Crime Scene Investigator, (CCSI)

Level I Level II

b. Certified Crime Scene Analyst, (CCSA)c. Certified Senior Crime Scene Analyst (CSCSA)

Level III

d. American Board of Criminalistics

(Diplomate and/or

Fellow)

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