Controlled Substances Training Manual

1.0 Purpose

The following manual is to be used as a guide in training new Forensic Scientists in the analysis of controlled substances. It may be used in its entirety or for just the sections of interest. Each section is to be used with the corresponding analytical method (AM) found in the ISP Controlled Substances AM manual. Special thanks are given the Kansas Bureau of Investigations for their permission to use their manual as the basis for this manual.

2.0 Procedure

As each subsection is completed both the Forensic Scientist and the trainer will sign and date the checklist. Once all training is complete then the analyst will get a copy of the checklist and the original will go to the QA/QC manager to be kept with the analyst's other training records.

neral Laboratory

3.1 Safety Manual

Read and pass test of the safety manual

3.2 Quality Manual

3.0 General Laboratory

- 3.2 Quality Manual Read and pass test of the quality manual
- Evidence Procedures 3.3 Review evidence procedures including, but not limited to, evidence receipt and checkout, proper seals, and the IETS system
- 3.4 Review Balcalsop, demonstrate competency of theory and use of the various balances in the laboratory including but not limited to the operation of tare features and the monthly calibration check. Read section 28B, pg 533 through 540, of Analytical Chemistry, by Skoog/West/Holler, 6th edition.
- 3.5 Review General drug AM.
- 3.6 Complete current requirements of ethics training as detailed in the Quality Manual.
- The trainee shall have a general understanding of the other disciplines offered by the Idaho State Police Forensic Services. This understanding can be gained from school course work, reading about each discipline in a General Forensic Science book, reviewing the methods of each discipline and/or talking with or observing other Forensic Scientists working in those areas.

		Trainer
4.0	Testim	nony Training
	4.1	Courtroom Decorum Discuss appropriate eye contact, gestures, voice volume, and approach for visual aides during testimony. Describe proper attire for courtroom appearances.
	4.2	Admission of Evidence Discuss the ramifications of <i>Daubert v. Merrelt Dow Pharmaceutical and Frye v. United States.</i> Discuss the factors that help assure a scientific testing procedure to be established as reliable.
	4.3	Observation Attend an actual trial for observation. Date of completion Trainer Background feading
5.0 M	arijuan 5.1	Background reading To include Idaho Code sections 37-2701 (n)(s) and 37-2707 d(27), "Drug Identification Bible, 2010". Pages 581-686. Worksheets and reporting format. MJ training.doc TLC training doc
		Date of completion Forensic Scientist
		Trainer

Date of completion _____ Forensic Scientist

Sections 5.2, 5.3, 5.4 and 5.5 are used with the Marijuana AM.

5.2 <u>Physical examination</u>, AM section 5.0.0 Page 2 of 8

5.2.1 5.2.2	Microscopic examination of cystolithic and unicellular hairs, seed structure. Seed germination, AM section 9.0.0		
	Date of completion	Forensic Scientist	
		Trainer	
5.3	<u>Duquenois Levine</u> AM section 7.0.0.	S	
	Date of completion	Forensic Scientist	
		Trainer Colonial Trainer	
5.4 5.4.1 5.4.2	Thin Layer Chromatography (TLC) Basic theory and AM section 6.0.0 Chloroform and Pet ether/ Ethyl ether	er systems with fast blue BB.	
	Date of Completion	Forensic Scientist Trainer	
5.5	Hashish and Pipes Order of analysis and reporting diffe		
	Date of completion	Forensic Scientist	
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5.6	Competency test 100 % correct analysis of various pla 100 % correct answers on the writter The competency tests will be provide	ı test.	
	Date of completionPage 3 o	Forensic Scientist f 8	

Trainer

5.7	Mock Court
	Purpose, layout and critique.
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	Date of completion Forensic Scientist
	Purpose, layout and critique. Date of completion Forensic Scientist
	Trainer age Drugs Background reading The Idaho Code, all of section 37-2700. Drug Identification Bible, 2000 version or never. Applicable sections. Date of completion Forensic Scientist Trainer Trainer
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6.0 Solid Dos	age Drugs
6.1	Background reading
	The Idaho Code, all of section 37-2700.
	<u>Drug Identification Bible, 2000 version or newer.</u> Applicable sections.
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	Date of completion Forensic Scientist
	Trainer
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6.2	Gas Chromatograph Mass Spectrometer (GC/MS)
	Hewlett Packard Agilent GC/MS tutorial
	Review of maintenance procedures and schedules
6.2.3	~ ·
6.2.4	HP/Agilent Chemstation software
6.2.5	Review of various temperature programs
6.2.6	Read GC training.doc and MS training.doc
6.2.7	
6.2.8	Review CTMAMPH training.doc
6.2.9	Review Cocaine training.doc

	Date of completion	Forensic Scientist	
		Trainer	
6.3 6.3.1	Fourier Transform Infrared Spectron Nicolet tutorial	<u>meter</u>	
6.3.2			
6.3.3			
6.3.4	Spectroscopy training.doc, IR training		
		SON CONTRACTOR	
	Date of completion	Forensic Scientist	
		Trainer COPY 1201	
	. (P X N	
6.4	Chemical color (spot) tests		
6.4.1	Review Clarke's Analysis of Drugs	and Poisons, 3 rd edition, vol 1, chapter19.	
6.4.2	Spot tests training.doc		
6.4.3	Spot tests of known standards with	various reagents.	
	Date of completion	Forensic Scientist	
	of Idaho nitro DO	Trainer	
6.8	Mushrooms		
6.8.1	Review Psilocyn Psilocybin AM.		
6.8.2	Danian CTM (III A)		
6.83	TLC analysis with T1		
	Date of completion	Forensic Scientist	
		Trainer	
6.9	Pills, LSD, and general unknowns		

6.9.1 Review references i.e. PDR, Logo, etc. DEA and Idaho code scheduling Page 5 of 8

6.9.2	2 Review Extractions.doc, CTMHAL training.doc, LSD AM, General unknown AM.				
	Date of completion	Forensic Scientist			
		Trainer			
6.10	Clandestine Laboratory Analysis (co				
	Review analytical selection sequence	e. S			
	Phosphorous AM				
	I Decorded hadring and appedring extractions and analytical accorders				
	Pseudoephedrine and ephedrine extractions and analytical procedures Methamphetamine extraction and analysis				
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	Date of completion	Forensic Scientist			
	C	Trainer COPY 120112			
6.11	Competency test	101			
		olled substances from a variety of powders,			
	liquids, and or pills. Results will be	ch instrument capable of producing structural			
	information, i.e. MS and FTIR.	on the market cupuote of producing structural			
	100 % correct answers on written tes				
	The competency tests will be provide	ed by the discipline leader.			
	Date of completion	Forensic Scientist			
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6.12	Mock court				
	Purpose, layout, and critique				
	Date of completion	Forensic Scientist			
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History for ISP Forensic Laboratory Training Manual

Revision #	Issue or review date	History	Author or Reviewer
2	6/4/03	Changed format on all sections	D.C. Sincerbeadx
3	1/13/06	Added 3.4 and changed 5.11	D.C.Sincerbeaux
4	5/9/07 added written		testimony, reordered numbering, nged SOP to AM.
5	5/22/09	Dropped 5.8 and 6.13	D.C. incerbeaux
6	11/16/10	Added 3.6 3.7. Changed	D.C. Sincerbeaux
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