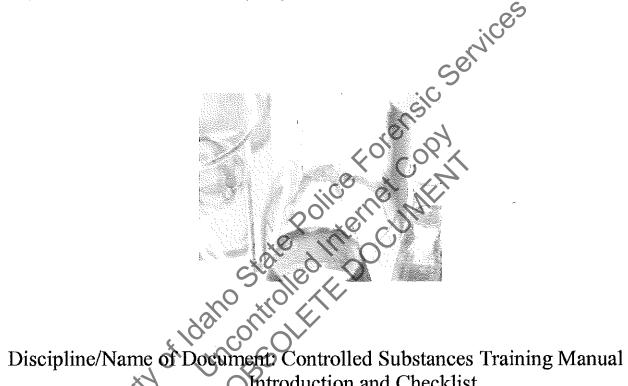
## Idaho State Police Forensic Services

Approval for Quality System Controlled Documents



Introduction and Checklist

Issue Date: 5/9/2007

## **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.

## 3.0 General Laboratory

- 3.1
- 3.2
- safety Manual
  Read and pass test of the safety manual
  Quality Manual
  Read and pass test of the quality manual
  Evidence Procedures
  Review evidence procedures
  checkout, proper 3.3 Review evidence procedures including, but not limited to, evidence receipt and
- Review Balcalsop, demonstrate competency of theory and use of the various 3.4 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.
- Review General drug AM. 3.5

Date of completion	Forensic Scientist
	Trainer

#### 4.0 **Testimony 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 Daubert v. Merrell Dow Pharmaceutical and Frye v.
	United States.
•	Discuss the factors that help assure a scientific testing procedure to be established as
4.0	reliable.
4.3	Observation
	reliable. Observation Attend an actual trial for observation.
	Date of completion Forensic Scientist
	Pare of completion Poleisle Scientis
	Trainer 5
	L. 102
	60,00%
5.0 Marijuan	
5.1	a  Background reading To include Idaho Code sections 37-2701 (n)(s) and 37-2707 d(27),
	To include Idaho Code sections 37-2701 (n)(s) and 37-2707 d(27),
	"Drug Identification Bible, 2002". Pages 617-665.
	Worksheets and reporting format.
	MJ training.doc
	TLC training.doc
	Date of completion Forensic Scientist
	Date of completion Forensic Scientist
	Trainer
	M COS
Section	ns 52, 5.3, 5.4 and 5.5 are used with the Marijuana AM.
	2
5.2	Physical examination, AM section 5.0.0
5.2.1	Microscopic examination of cystolithic and unicellular hairs, seed structure.
5.2.2	Seed germination, AM section 9.0.0

5.3 Duquenois Levine Trainer

Date of completion \_\_\_\_\_ Forensic Scientist

	AM section 7.0.0.	
	Date of completion	Forensic Scientist
		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 ethe	er systems with fast blue BB
	Date of Completion	Forensic Scientist
5.5	Hashish and Pipes Order of analysis and reporting differ	Trainer Cold
	Date of completion  Competency test 100 % correct analysis of various pla 100% correct answers on the writter The competency tests will be provided.	Forensic Scientist  Trainer
5.6	Competency test 100 % correct analysis of various pla 100 % correct answers on the writter The competency tests will be provide	nt, and other, material. n test. ed by the discipline leader.
Α,	Date of completion	Forensic Scientist
		Trainer

Page 3 of 8

	5.7	Mock Court Purpose, layout and critique.	
		Date of completion	Forensic Scientist
			Trainer
	5.8	Cosigned Case Review One hundred (100) and letter from tr	ainer.
		Date of completion	Forensic Scientist
6.0 So	lid Dos	age Drugs Background reading The Idaho Code, all of section 37-27 Drug Identification Bible, 2000 vers.  Date of completion	Trainer COPY  COPY
	6.1	Background reading	
		Drug Identification Bible, 2000 vers	ion or newer. Applicable sections.
			,,
		Date of completion	Forensic Scientist
		operation of the same of the s	Trainer
	6.20	Gas Chromatograph Mass Spectrome	eter (GC/MS)
	6.2.1	Hewlett Packard/ Agilent GC/MS tu	
	6.2.2	Review of maintenance procedures a	
	6.2.3	Review of documentation and filing s	system
	6.2.4 6.2.5	HP/Agilent Chemstation software Review of various temperature progr	ame
	6.2.6	Read GC training.doc and MS training	
	6.2.7	Review GC/MS AM.	
	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 6.3.2 6.3.3 6.3.4	Fourier Transform Infrared Spectron Nicolet tutorial Nicolet Omni software Review maintenance procedures, scl Spectroscopy training.doc, IR training	nedules, and documentation
	Date of completion	Forensic Scientist Trainer
6.4	Chemical color (spot) tests	
6.4.1	Review Clarke's Analysis of Drugs	and Poisons, 3 <sup>rd</sup> 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
	Obelta Or	Trainer
6.8	Mushrooms	
6.8.1	Review Psilocyn/Psilocybin AM.	
6.8.2	Review CTMHAL.doc	
6.8.3	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, et	tc. DEA and Idaho code scheduling	
6.9.2		raining.doc, LSD AM, General unknown	
	AM.	,	
	Date of completion	Forensic Scientist	
		Trainer	
6.10	Clandentine Laboratory Analysis (eas	nmon)	
	Clandestine Laboratory Analysis (con	<u> </u>	
	Review analytical selection sequence.		
	Phosphorous AM	CO.	
	Iodine AM		
	4 Pseudoephedrine and ephedrine extractions and analytical procedures		
6.10.5	Methamphetamine extraction and ana	alysis	
		10 07	
	Date of completion	Forensic Scientist	
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	0011	Trainer	
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6.11	Competency test		
	100% correct identification of control	lled substances from a variety of powders,	
	liquids, and or pills. Results will be at	tained using all aspects of analysis including	
	at least one result from each instrume	ent capable of producing structural	
	information, i.e. MS and FTIR.		
	100 % correct answers on written tes	st	
	The competency tests will be provide		
	The provide the provide	a of the approximation	
	Date of completion	Forensic Scientist	
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6.12 Mock court

	Purpose, layout, and critique	
	Date of completion	Forensic Scientist
		Trainer
6.13	Cosigned casework review One hundred (100) and letter from the	rainer
	Date of completion	Forensic Scientist
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\(\sigma^{}\)	One hundred (100) and letter from the Date of completion	

## 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. Sincerbeaux
3	1/13/06	Added 3.4 and changed 5.11	D.6. Sincerbeaux
4	5/9/07 added written t	Changed format on all sections  Added 3.4 and changed 5.11  added 3.5, section 4 coursests to competency's changed 5.11	testimony, reordered numbering, nged SOP to AM.

# Controlled Substances Training Manual

## 1.0 Purpose

The following manual is to be used as a guide in training new criminalists in the analysis of controlled substances. It may be used in its entirety or for just the sections of interest. Where appropriate, each individual analytical section or subsection will refer to the corresponding section in the Drug Protocol manual.

#### 2.0 Procedure

As each subsection is completed both the criminalist 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.

3.0 Marijuana	a
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3.1	Background reading	"No INI	
	To include Idaho Code, etc. Works	reets and reporting forms	at.
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	Date of completion	Criminalist	
	daho nirolik Ti	Trainer	
3.2	Physical examination		
3.2.1	Microscopic examination of cystolit	hic and unicellular hairs,	seed structure.
3.2.2	Seed germination		
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	Date of completion	Criminalist	
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		Trainer	:
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3.3	Duquenois Levine		*
	Protocol # and possible problems		
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	Date of completion	Criminalist	Ì
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		Trainer	<b>)</b> V

Revision 0 Date 6/2000 Training Manual trainman2

3.4	Thin Layer Chromatography (TLC)	
3.4.1 3.4.2	Basic theory Chloroform and Pet ether/ ether syst	come with fact him DD
J. <b>T.</b> 2	Chloroform and Fet ether/ ether syst	ems with fast office bb
	Date of Completion	Criminalist
		Trainer
3.5	Hashish and Pipes	S
	Order of analysis and reporting diffe	erences
	Date of completion	erences  Criminalist
		m. t
		Kole Oby
3.6	Competency test 100 % correct analysis of various plants	
	100 % correct analysis of various pla	ant, and other material
	Date of completion	Criminalist
	Date of completion  Mock Court Purpose, layout and critique  Date of completion	Tramer
	Sulled	
3.7	Mock Court	•
	Purpose, layout and critique	
	Date of completion	Criminalist
	Since of Acute Louisin	Offinialist
<b>△</b>	100°	Trainer
X	*	
3.8	Cosigned Case Review	
	One hundred (100) and letter from tr	amer
	Date of completion	Criminalist
		Trainer

## 4.0 Solid Dosage Drugs 4.1 Background reading Date of completion \_\_\_\_\_ Criminalist \_\_\_\_ Trainer 4.2 Gas Chromatograph Mass Spectrometer (GC/MS) 4.2.1 Hewlett Packard GC/MS tutorial 4.2.2 Review of maintenance procedures and schedules 4.2.3 Review of documentation and filing system 4.2.4 HP Chemstation software 4.2.5 Review of various temperature programs Criminalist Date of completion Fourier Transform Infrared Spectrometer Nicolet tutorial 4.3 4.3.1 Nicolet Omni software Review maintenance procedures, schedules, and documentation 4.3.2 Nicolet Omni software 4.3.3 Date of completion Criminalist Trainer-Chemical color (spot) tests

Spot tests of known standards with various reagents

Date of completion \_\_\_\_\_

4.5 Phenethylamine family

Review Clark

4.4.2

Criminalist \_\_\_\_\_

Trainer

4.5.1 4.5.2 4.5.3	GC/MS extraction and analysis FTIR extractions and analysis Microcrystalline analysis	
	Date of completion	Criminalist
		Trainer
4.6 4.6.1 4.6.2 4.6.3	Cocaine family GC/MS extraction and analysis FTIR extractions and analysis Microcrystalline analysis	Criminalist: C.
	Date of completion	Criminalist
4.7 4.7.1 4.7.2 4.8 4.8.1 4.8.2 4.8.3	Opiates GC/MS extractions and analysis FTIR extractions and analysis Date of completion  Mushrooms Spot test with fast blue BB GC/MS extraction and analysis TLC analysis with T1	Criminalist  Criminalist  Criminalist
X	Date of completion	Criminalist
		Trainer
4.9 4.9.1 4.9.2	Pills, LSD, and general unknowns References i.e. PDR, Logo, etc. DEA GC/MS extractions and analysis	and Idaho code scheduling

	Date of completion	Criminalist
		Trainer
4.10.2 4.10.2. 4.10.3 4.10.4		methods Is actions and analytical procedures
4.11	Competency test 100% correct analysis of a variety of Date of completion	Trainer
4.12	Date of completion  Mock court Purpose, layout, and critique  Date of completion	Criminalist
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4.13	Cosigned casework review One hundred (100) and letter from tra	ainer
	Date of completion	Criminalist
		Trainer