

New Hampshire Department of Safety Division of Fire Standards and Training and Emergency Medical Services

33 Hazen Drive, Concord, NH 03305

1-800-371-4503 or 603-223-4200

FAX: 603-271-1091

FIRE STANDARDS AND TRAINING COMMISSION

CURRICULUM DEVELOPMENT AND APPROVAL GUIDE

FIRE INVESTIGATOR NFPA 1033 (2022)

Approved by the New Hampshire Fire Standards and Training Commission

Commission Approval	Date:			
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Curriculum Information Sheet

Name of Certification:	Fire Investigator					
(including NFPA Standard)	NFPA Standards #: 1033 Edition Date: 202	2 Next Edition: 2027				
Type of Certificate:	NH Certification: Pro-Boa	rd Certified X				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Certificate of Attendance:					
Curriculum Committee						
Approval	Date:					
		-				
ProBoard/Certification	Question bank validation: In P	rocess				
requirements:	Number of exam questions: 100					
Please attached all job sheets	Job Sheets updated and formatted: Yes					
and NFPA matrix	NFPA Matrix: Yes					
Reference Material for Students:	NFPA® 1033 Standard for Professional Qual	ifications for Fire				
	Investigator (2022)					
Include edition numbers	estigations (2021)					
	Fire Investigator: Principles and Practice, M	ost Recent Edition*				
	FSTEMS Policies and Procedures					
Class Size: Min:1	.2 Max: 16 Number of Curriculu	<i>m Hours:</i> 106				
Module Breakdown:	Analyzing the Incident	Hours: 2				
	Basic Fire Science & Dynamics	Hours: 4				
	Building Systems	Hours: 2				
	Case Report Layout	Hours: 2				
	Classification of Fire Cause	Hours: 2				
	Complex Investigations	Hours: 2				
	Curriculum Vitae (CV's)	Hours: 2				
	Documenting the Fire Scene	Hours: 2				
	Electricity and Fire	Hours: 4				
	Evidence Collection Practical	Hours: 2				
	Expert Witness Challenges	Hours:2				
	Explosions / Explosives	Hours: 2				
	Fire & Explosion Death and Injuries	Hours: 2				
	Fire Dynamics - Burn Demonstration Practical	Hours: 2				
	Fire Ignition Testing - Hypothesis Testing Practic	cal Hours: 4				
	Fire Investigation Practical Exercise	Hours:4				
	Fire Investigation Practical Exercise	Hours:4				
	Fire Origin & Cause Determination	Hours: 4				

Fire Patterns	Hours:	2
Fire Patterns / Fire Scene Practical	Hours:	4
Fuel Gas System Practical	Hours:	2
Fuel Gas Systems & Public Utilities	Hours:	2
Human Behavior and Fire	Hours:	2
Incendiary Fires	Hours:	2
Interviewing / Practical	Hours:	4
Investigating Explosion Scenes Practical	Hours:	2
Investigation Final Project Presentations	Hours:	2
Legal Considerations	Hours:	4
Motor Vehicle, Equipment, and Marine Fires	Hours:	4
Physical Evidence	Hours:	6
Planning the Investigation	Hours:	2
Presenting your case: Prosecutors, Grand Jury,		
Courtroom Testimony	Hours:	2
Professional Organizations, Development,		
Professional Standards	Hours:	2
Report Writing	Hours:	4
Review of Team Reports with program staff	Hours:	2
Safety for Fire Investigators	Hours:	2
Sources of Information	Hours:	2
Wildland Fire Investigations and Practical	Hours:	4
Copy of current CV or resume with application Letter from the Chief of Department or agency if following:	nead outlining th	e
Current fire investigation responsibilities	OR	
They are being assigned fire investigation		
They are assigned to the class as their pl		16
duration of the course, ensuring no sche		
Proof of completion for the following IAAI online		/ithin
12 months of enrollment:	e certifications vi	, i ci i i i
NFPA 1033 and Your Career		
CFIT - NFPA 1033 and your career.		
CFIT - Practical application of the relation	nship hetween N	FPA
1033 and 921		
CFIT - The Scientific Method for Fire and	Explosion	
Investigations.		
CFIT - Charting Your Path in Fire Investiga	ation	
		1
Certification as a Fire Investigator by the IAAI, N	AFI, ATF&E. OR	
		,,
Currently working as fire investigator with a min	- /	
Currently working as fire investigator with a min experience processing and operating on fire sce	nes, <i>OR</i>	
Currently working as fire investigator with a min experience processing and operating on fire sce A subject matter expert in the field of fire invest		er,

Prerequisites for Applicants:

Prerequisites for Instructors:

Requirements for Testing:

All modules completed

	Comple	tion of the follow	ing IAAI onli	ne certifi	cations		
		CFIT - Documenti	ng the Event				
		CFIT - Effective In	vestigations	& Testim	ony.		
		CFIT - Ethics and	the Fire Inve	stigator.			
		CFIT - Fire Protec	tion Systems	;			
		CFIT - Fundamen	als of Reside	ential Bui	ding Constri	uction.	
		CFIT - Introductio	n to Evidenc	е			
		CFIT - Introductio	n to Fire Dyr	namics an	d Fire Mode	ling	
		CFIT - Investigatir	ng Fatal Fires			7	
		CFIT - Investigatir	ng Motor Vel	nicle Fires	S. /		\overline{I}
		CFIT - Lithium-Ior	Battery Fire	es			
		CFIT - Physical Ev	idence at the	Fire Sce	ne		
CFIT - Using Resources to Validate Your Hypothesis							
		CFIT - Writing the	initial Origin	n & Cause	Report.		
	1			7			
What type of factor dete	ermines						
successful completion:				T.			
Attach sample schedule	of proposed training	ng program:	Yes	X	No		
Attach roster of all visiti	ng committee men	bers	Yes	Х	 No		
Co		20.	hi //				
Public Hearing Dates	Daytime:	Evenir	ng:				
60-day comment period	window	3	77-1964				
	Please attach all	oublic comment mat	erial to this doc	ument			
	4	11: 11,	419				
Preliminary Commission			1:00	.// 17			
Approval		ing " " " "	7	Date:			
		- 11 1					

Please attach the following:

- ProBoard Test matrix
- Test stations
- Practical exam testing explanation
- Sample schedule
- Visiting Committee members

NEW HAMPSHIRE FIRE STANDARDS AND TRAINING / EMERGENCY MEDICAL SERVICES

Certified Fire Investigator

Practical Evaluation Skill Package

NFPA 1033 – Standard for the Professional Qualifications for Fire Investigator, 2022 Edition





course. This form must be submitted by the Instructor for Certification.

NHFA - CERTIFIED FIRE INVESTIGATOR

Student Full Name:	
This Instructional JPR Verification Sheet is to be used in conjunction with the New Hampshire Fire Academy Fi	re
Investigator Skill Sheets. These skills meet all the requirements of NFPA 1033, Standard for Professional	
Qualifications for Fire Investigator, 2022 edition. Each of these skills should be taught and assessed during the	

Practical Examination for Certification: Skills testing will be conducted using a minimum of 25% of the JPRs listed below. The skills will be randomly drawn by the Certification Staff and administered by an approved evaluator after all training hours have been completed. For successful completion of the practical examination, a minimum 70% competency (including critical points) is required for certification. Please refer to the Certification Criteria for this level for a complete listing of the certification requirements.

Skill Sheet	Primary Task		JPR(s) Covered
01	Secure the Fire Ground / Conduc	t Exterior Survey	4.2.1, 4.2.2
02	Interior Survey / Interpret Fire Pa	atterns	4.2.3, 4.2.4, 4.2.5
03	Examine & Remove Fire Debris		4.2.6
04	Reconstruct the Area of Origin		4.2.7
05	Inspect the Performance of Build	ling Systems	4.2.8
06	Discriminate the Effects of Explo	osion	4.2.9
07	Documenting the Scene		4.3.1, 4.3.2, 4.3.3
08	Evidence Collection / Preservation	on	4.4.1, 4.4.2, 4.4.3, 4.4.4, 4.4.5
09	Witness Interview		4.5.1, 4.5.2, 4.5.3, 4.6.4
10	Gather Investigative File; Establi	sh Motive	4.6.1, 4.6.2, 4.6.4, 4.6.5
11	Coordinate Expert Resources		4.6.3
12	Prepare a Written Report		4.7.1
13	Express Investigative Findings		4.7.2, 4.7.3
Course L	ocation:	Course Dates:	
Instructor Printed Name:		Instructor Signature:	
Candidat	e Printed Name:	Candidate Signatu	ire:



SECURE THE FIRE GROUND / EXTERIOR SURVEY

Reference source: NFPA 1033 - Sections 4.2.1, 4.2.2, 2022 Edition

NHFA - CERTIFIED FIRE INVESTIGATOR

SKILL SHEET FINV - 01

The student, given marking devices and tools, shall secure the fire ground / scene and conduct an exterior survey of the building or area so that unauthorized persons can recognize the perimeters of the investigative scene and are kept from all restricted areas, any evidence is identified and protected from damage, or destruction, all potential ingress or egress are identified, any hazards at the scene are identified, and any fire effects or burn patterns are identified.

Expected time to complete skill(s) is 60 minutes

Pe	rformance Steps			Те	st	Ret	est
Sa	fely performs the following steps			Р	F	Р	F
1.	Uses marking devices to secure investiga	ative area – Cl	RITICAL POINT				
2.	Unauthorized persons are kept from restr	ricted areas - C	CRITICAL POINT				
3.	Identifies and protects any evidence - CF	RITICAL POIN	Т				
4.	Performs a size up of the fire ground for	hazards					
5.	Performs a size up of the structural cond	ition					
6.	Identifies means of ingress and egress						
7.	Verbalizes the damage from the effects of	of fire					
8. Interprets burn patterns on exterior of building							
Candidate must successfully perform 6/8 steps including all CRITICAL POINTS Evaluator Notes:					8	1	8
	Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score:				
	Do Toot Fredricton Drint None 2 Cin		Pass Pass Tast	0	Fa	il	
	Re-Test Evaluator Print Name & Sig	nature:	Overall Skill Sheet Re-Test Pass	Score:	Fa		
	Candidate Print Name & Signatu	ire:	Candidate: Print Nar	ne or C			
	ote to Student: Skill will end when you state to Student: Skill will end when you state to steps. Notify the evaluator at ANY			comple	eted a	II the	



INTERIOR SURVEY / INTERPRET FIRE PATTERNS

Reference source: NFPA 1033 - Sections 4.2.3, 4.2.4, 4.2.5, 2022 Edition

NHFA - CERTIFIED FIRE INVESTIGATOR

SKILL SHEET FINV - 02

The Candidate, given standard equipment / tools and some structural or content remains, shall conduct an interior survey and interpret / identify patterns created by both the fire and fire suppression efforts and how they were impacted by fuel loads and packages in the building.

Expected time to complete skill(s) is 60 minutes

Performance Steps		Test		Retest	
Safely performs the following steps	I	Р	F	Р	F
Assesses structural conditions and identifies any hazards, and offers solutions CRITICAL POINT	-				
2. Verbalizes the damage and effects of the fire					
3. Discovers the impact of fire suppression efforts on fire flow and heat propagation	n				
4. Evaluates protected areas to determine the presence and/or absence of content	nts				
5. Interprets the effects of burning characteristics on different types of materials					
6. Distinguishes the impact of different fuel loads					
7. Evaluates fuel trailers					
8. Analyzes and synthesizes the information					
Candidate must successfully perform 6/8 steps including all CRITICAL POINTS			8	1	8
Evaluator Notes:	ı			1	

Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score:		
		Pass	Fail	
Re-Test Evaluator Print Name & Sig	Signature: Overall Skill Sheet Re-Test Score:		<u>st</u> Score:	
		Pass	Fail	
Candidate Print Name & Signature:		Candidate: Print N	lame or Candidate #	

NHFA - CERTIFIED FIRE INVESTIGATOR

SKILL SHEET FINV - 03

The candidate, given standard equipment and tools, shall examine and remove fire debris so that the debris is checked for fire cause evidence, any potential ignition sources are identified, and any evidence is identified and preserved.

Expected time to complete skill(s) is 60 minutes

Performance Steps	Te	Test		est
Safely performs the following steps	Р	F	Р	F
1. Removes fire debris				
2. Searches for fire cause evidence and ignition sources				
3. Identifies all potential ignition sources – CRITICAL POINT				
4. Collects and preserves evidence – CRITICAL POINT				
5. Identifies all potential accidental sources of ignition – CRITICAL POINT				
6. Ensures evidence is not contaminated or damaged				
Candidate must successfully perform 5 / 6 steps including all CRITICAL POINTS	1	6	1	6
Evaluator Notes:			•	

Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score:		
		Pass	Fail	
Re-Test Evaluator Print Name & Sig	nature:	Overall Skill Sheet Re-Test Score:		
		Pass	Fail	
Candidate Print Name & Signatu	ire:	Candidate: Print Name or Candidate #		

NHFA - CERTIFIED FIRE INVESTIGATOR

SKILL SHEET FINV - 04

The candidate, given standard tools, shall reconstruct the area of origin so that all protected areas and fire patterns are identified and items are returned to their pre-fire location, and the area of origin is identified.

Expected time to complete skill(s) is 60 minutes

Pei	formance Steps	Test		Retest	
Saf	ely performs the following steps	Р	F	Р	F
1.	Identifies protected areas				
2.	Determines the effects of fire on items (furniture, appliances, house hold items, etc)				
3.	Identifies and distinguishes different types of fire patterns, damage, etc CRITICAL POINT				
4.	Returns materials to their original positions using protected areas & fire patterns				
5.	Identifies the area or point of origin – CRITICAL POINT				
Ca	ndidate must successfully perform 4 / 5 steps including all CRITICAL POINTS	1	5	1	5
Fva	aluator Notes:				

Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score:		
		Pass	Fail	
Re-Test Evaluator Print Name & Sig	Overall Skill Sheet Re-Test Score:			
	Pass	Fail		
Candidate Print Name & Signature:		Candidate: Print Name or Candidate #		



INSPECT THE PERFORMANCE OF BUILDING SYSTEMS

Reference source: NFPA 1033 - Sections 4.2.8, 2022 Edition

NHFA - CERTIFIED FIRE INVESTIGATOR

SKILL SHEET FINV - 05

The candidate, given standard tools, shall inspect the performance of all building systems, including detection, suppression, HVAC, utilities, and building compartmentation so that a determination can be made as to the need for expert resources. Impact of fire growth, development, defeated / failed systems are identified, and the systems potential as a fire cause is recognized.

Expected time to complete skill(s) is 60 minutes

Performance Steps		Test		est
Safely performs the following steps		F	Р	F
Determines the operational status of all building systems				
2. Determines the effect, if any, building systems had in relation to the fires origin, growth, and development.				
3. Identifies any alteration of, or failure of a building system and the indicators – CRITICAL POINT.				
4. Evaluates the impact of suppression efforts on building systems				
5. Determines if any expert resources are needed to aid in investigation				
Candidate must successfully perform 4 / 5 steps including all CRITICAL POINTS			1	5
Evaluator Notes:				

Evaluator Notes:

Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score:		
		Pass	Fail	
Re-Test Evaluator Print Name & Sig	Overall Skill Sheet Re-Test Score:			
	Pass	Fail		
Candidate Print Name & Signature:		Candidate: Print Name or Candidate #		



DISCRIMINATES THE EFFECTS OF EXPLOSIONS

Reference source: NFPA 1033 - Sections 4.2.9, 2022 Edition

NHFA - CERTIFIED FIRE INVESTIGATOR

SKILL SHEET FINV - 06

The candidate, given standard equipment, shall discriminate the effects of explosions from other types of damage so that an explosion is identified, and any evidence is preserved.

Expected time to complete skill(s) is 60 minutes

Performance Steps				est	Ret	test
Safely performs the following steps			Р	F	Р	F
Identifies explosion effects on glass, wall	ls, foundations	s, and other building materials				
Distinguishes between high and low orde CRITICAL POINT	er explosions a	and the effects –				
Analyzes the damage caused						
4. Documents the blast zone and the explos	sions origin					
Candidate must successfully perform 3 / 4	4 steps includ	ling all CRITICAL POINTS	1	4	1	4
Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score:				
		Pass Fail				
Re-Test Evaluator Print Name & Sig	nature:	Overall Skill Sheet Re-Test S	score:		·	
		Pass Fail				
Candidate Print Name & Signatu	ire:	Candidate: Print Nam	ne or C	Sandic	late #	
Note to Student: Skill will end when you stated identified steps. Notify the evaluator at ANY		•	comp	oleted	all the	



NHFA - CERTIFIED FIRE INVESTIGATOR

SKILL SHEET FINV - 07

The candidate, given standard tools, shall diagram and photograph the scene so that the scene is accurately represented and depicted. Pertinent contents, significant patterns and the area and point of origin is identified. Investigative notes shall be constructed to provide accurate documentation of the scene, and shall be transcribed into the final report.

Expected time to complete skill(s) is 60 minutes

Per	formance Steps			Те	st	Ret	est
Saf	ely performs the following steps			Р	F	Р	F
1.	Sketches the scene accurately - CRITICAL F						
2.	Identifies on the sketch pertinent contents, sig	gnificant pa	atterns & area(s) of origin				
3.	Demonstrates basic drafting skills (include sca	ene featur	es and measurements)				
4.	Identifies and documents evidence, locations,	, etc.					
5.	Uses flash camera to photographically document the scene – CRITICAL POINT						
 Utilizes data reduction skills to reduce information to concise notes – CRITICAL POINT 							
Candidate must successfully perform 5 / 6 steps including all CRITICAL POINTS				1	6	1	6
	Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score:				
			Pass	Fail			
	Re-Test Evaluator Print Name & Signatur	re:	Overall Skill Sheet Re-Test S	Score:			
		Pass		Fai	<u> </u>		
Candidate Print Name & Signature:			Candidate: Print Nam	ne or C	andid	ate#	
	ote to Student: Skill will end when you state or entified steps. Notify the evaluator at ANY time		•	comple	eted al	I the	



EVIDENCE COLLECTION AND PRESERVATION

Reference source: NFPA 1033 - Sections 4.4.1, 4.4.2, 4.4.3, 4.4.4, 4.4.5, 2022 Edition

NHFA - CERTIFIED FIRE INVESTIGATOR

SKILL SHEET FINV - 08

The candidate, given protocols, standard tools, information, and regulations shall identify / discover, document, label, package, and preserve evidence. Selects evidence for analysis, maintains chain of custody for evidence, and dispose of evidence.

Expected time to complete skill(s) is 60 minutes

Performance Steps		Test		Ret	est
Safely performs the following steps		Р	F	Р	F
Applies evidence protocols to assigned situation – CRITICAL POINT					
2. Identifies / discovers evidence using observational skills					
3. Identifies different types of evidence & determines if critical to investigation					
4. Properly packages all evidence so that it is preserved - CRITICAL POINT					
5. Correctly labels evidence so that it is properly identified - CRITICAL PC	TAIC				
6. Selects evidence for analysis					
 Evaluates scene to determine if a forensic, engineering, laboratory, or other specialists is needed. 					
8. Executes chain of custody procedures – CRITICAL POINT					
9. Completes necessary documents, takes accurate notes – CRITICAL POINT					
Candidate must successfully perform 7 / 9 steps including all CRITICAL POINTS			9	/	9
Evaluator Notes:					

Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score:		
		Pass	Fail	
Re-Test Evaluator Print Name & Sig	Overall Skill Sheet Re-Test Score:			
		Pass	Fail	
Candidate Print Name & Signature:		Candidate: Print Name or Candidate #		

NHFA - CERTIFIED FIRE INVESTIGATOR

SKILL SHEET FINV - 09

The candidate, given an incident scenario, shall obtain information regarding the overall investigation from witnesses, first responders, occupants, and property owners through verbal communications.

Expected time to complete skill(s) is 60 minutes

Performance Steps		Test		est
Safely performs the following steps		F	Р	F
1. Develops an interview plan – CRITICAL POINT				
2. Develops a list of questions for specific individuals				
3. Evaluates existing data to help develop questions				
4. Conducts interview				
5. Adjusts interviewing strategies based on deductive reasoning				
6. Interprets verbal and nonverbal communications				
7. Applies legal requirements – CRITICAL POINT				
8. Evaluates interview information				
9. Correlates data, takes accurate notes of interview – CRITICAL POINT				
10. Evaluates source information				
Candidate must successfully perform 9 / 10 steps including all CRITICAL POINTS		/10		/ 10
Evaluator Notes:				

Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score:		
		Pass	Fail	
Re-Test Evaluator Print Name & Sig	Overall Skill Sheet Re-Test Score:			
	Pass	Fail		
Candidate Print Name & Signature:		Candidate: Print Name or Candidate #		



GATHER INVESTIGATIVE FILE / ESTABLISH MOTIVE

Reference source: NFPA 1033 - Sections 4.6.1, 4.6.2, 4.6.4, 4.6.5, 2014 Edition

NHFA - CERTIFIED FIRE INVESTIGATOR

SKILL SHEET FINV - 10

The candidate, given all available information, shall gather reports and records, and evaluate the investigative file so that areas for further investigation are identified, the relationship between the gathered documents and information is interpreted.

The candidate, given investigative findings, shall establish a motive, and or opportunity, and formulate an opinion concerning the origin, cause, and responsibility for the fire.

Expected time to complete skill(s) is 60 minutes

Performance Steps					est	Ret	test
Saf	ely performs the following steps			Р	F	Р	F
1.	Identify the reports / documents necessary policies, financial records, deeds, private invevideos, etc.) – CRITICAL POINT						
2.	Evaluates the information for accuracy						
3.	Correlates the information						
4.	Implements the chain of custody - CRITI	ICAL POINT					
5.	Organizes reports and documents						
6.	Discovers discrepancies in information –	CRITICAL PO	DINT				
7.	Reviews financial analysis concerning me	otive, if availab	le.				
Interprets fire scene information and evidence to establish motive / opportunity – CRITICAL POINT							
Candidate must successfully perform 6 / 8 steps including all CRITICAL POINTS					/ 8		/ 8
Eva	lluator Notes:						
	Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score:				
			Pass		Fa	il	
	Re-Test Evaluator Print Name & Sig	nature:	Overall Skill Sheet Re-Tes	<u>t</u> Score:			
		Pass	Pass Fail				
Candidate Print Name & Signature: Candidate: Print Name or Can				Candid	late #		
	ote to Student: Skill will end when you sta entified steps. Notify the evaluator at ANY			e compl	eted a	ll the	

NHFA - CERTIFIED FIRE INVESTIGATOR

SKILL SHEET FINV - 11

The candidate, given the investigative file, shall coordinate expert resources so that the experts competencies are matched to the specific investigative needs.

Expected time to complete skill(s) is 60 minutes

Performance Steps				Test		test
Safely performs the following steps				F	Р	F
1. Identifies the applicable expert resource	needed - CRI	TICAL POINT				
2. Questions the experts relative to their qua	alifications					
3. Develops a utilization plan for the use of	the expert reso	ources				
Candidate must successfully perform ALL	_ steps includ	ing all CRITICAL POINTS		/ 3		3
Evaluator Notes:						
Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score:				
		Pass		Fa	il	
Re-Test Evaluator Print Name & Sig	nature:	Overall Skill Sheet Re-Test Score:				
		Pass	Fail			
Candidate Print Name & Signature:		Candidate: Print Nar	ne or (Candid	late #	
Note to Student: Skill will end when you sta	ate or indicate t	to the evaluator that you have	compl	eted a	ll the	

identified steps. Notify the evaluator at **ANY** time that you have a safety concern.

NHFA - CERTIFIED FIRE INVESTIGATOR

SKILL SHEET FINV - 12

The candidate, given investigative findings, shall prepare a written report so that the report accurately reflects the investigative findings.

Expected time to complete skill(s) is 60 minutes

Performance Steps		Test		est
Safely performs the following steps	Р	F	Р	F
Analyzes the information needed for report				
2. Identifies the needs / requirements of the reader				
3. Demonstrates proper writing skills				
4. Prepares a written report given the investigative findings				
5. Documents search techniques				
6. Minimal grammatical, or spelling errors				
7. Uses proper format with the typical components of a written report				
Candidate must successfully perform 5 / 7 steps including all CRITICAL POINTS		7	/	7
Evaluator Notos:				

Evaluator Notes:

Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score:	
		Pass	Fail
Re-Test Evaluator Print Name & Signature:		Overall Skill Sheet Re-Test Score:	
		Pass	Fail
Candidate Print Name & Signature:		Candidate: Print N	lame or Candidate #



EXPRESS INVESTIGATIVE FINDINGS

Reference source: NFPA 1033 - Sections 4.1.2, 4.7.2, 4.7.3, 2014 Edition

NHFA - CERTIFIED FIRE INVESTIGATOR

SKILL SHEET FINV – 13

The candidate, given investigative findings, shall verbally express the findings as part of testimony so that the information is presented clearly and accurately.

Expected time to complete skill(s) is 60 minutes

Performance Steps			Retest	
Safely performs the following steps	Р	F	Р	F
Reviews file and prepares for the proceedings				
2. Identifies the needs of the audience				
3. Correlates the findings				
4. Demonstrates communication and listening skills				
5. Differentiates facts from opinion				
 Determines accepted procedures, practices and etiquette during legal proceedings. CRITICAL POINT 				
Candidate must successfully perform 5 / 6 steps including all CRITICAL POINTS		6		6

Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score:	
		Pass	Fail
Re-Test Evaluator Print Name & Signature:		Overall Skill Sheet Re-Test Score:	
		Pass	Fail
Candidate Print Name & Signature:		Candidate: Print N	lame or Candidate #

Fire Investigator Schedule Overview

Week 1				
Monday	No Class	No Class	No Class	No Class
Week 2				
		⊕ INDEPENDENT STU	DY	
Week 3				
Monday ♣ Fire Science ♣ Burn Demo	Tuesday	Wednesday	<i>Thursday</i> 온 Physical Evidence	<i>Friday</i>
Week 4				
		INDEPENDENT STU	DY	
Week 5	Tuesday	Madaaadaa	The come of ever	Friday
Monday ┗ Wildland & Failure Analysis	Tuesday La Explosives La Safety	Wednesday & Incendiary Fires & Complex Fires & Interviewing	Thursday & Planning ဩ Investigation	Friday └─ Investigation Testing
Week 6				
Monday └── Ignition └── Reports	No Class	No Class	No Class	No Class
Week 7				
		⊕ INDEPENDENT STU	DY	
Week 8				
Monday	No Class	No Class	No Class	No Class
Week 9				
Monday & Certification Exam & Presentations	No Class	No Class	No Class	No Class

Key: ⊕ Online Delivery ♣ Classroom Delivery ♣ Practical Delivery

Investigator Detailed Course Schedule

Modu	e Date & Time	Location	Assignments and Activities	
	Week 1			
	Online	• CFIT — Ethics and t	c Method for Fire and Explosion Investigations.	
Mon, Aug 14 0800 - 1700	NHFA & EMS Classrooms 5 & 6	Topics / Activities Program Orientatio Legal Consideration		
		We	ek 2	
	① Online	■ CFIT — Documentin	dence at the Fire Scene.	
		We	ek 3	
Mon, Aug 14 0800 - 1700	NHFA & EMS Classrooms 5 & 6	Topics / Activities Basic Fire Methodo Basic Fire Science Fire Patterns Basic Fire Developm	ogy nent (Burn Demonstrations)	
Mon, Aug 14 0800 - 1700	NHFA & EMS Classrooms 5 & 6	Topics / Activities ■ Building Systems ■ Fuel Gas Systems & ■ Fuel Gas Practical	Public Utilities	
Mon, Aug 14 0800 - 1700	NHFA & EMS Classrooms 5 & 6	Topics / Activities Electricity and Fire Fire Related Human Sources of Informa		
Mon, Aug 14 0800 - 1700	NHFA & EMS Classrooms 5 & 6	Topics / Activities Physical Evidence Evidence Practical (Quiz	
Mon, Aug 14 0800 - 1700	NHFA & EMS Classrooms 5 & 6	Topics / Activities Fire Origin Determi Fire Cause Determi Classification of Fire Analyzing the Incide	nation	
		We	ek 4	
	Online	Online Activities	g Motor Vehicle Fires. als of Residential Building Construction.	

Investigator Detailed Course Schedule

Modu	le	Date & Time	Location	Assignments and Activities	
	Week 5				
Mon, Aug 14 0800 - 1700	ળે	NHFA & EMS Classrooms 5 & 6	Topics / Activities Wildland Fire Inv Failure Analysis ar	estigations / Practical d Analytical Tools	
Mon, Aug 14 0800 - 1700	્	NHFA & EMS Classrooms 5 & 6	Topics / Activities ■ Explosions ■ Explosion / Explo ■ Fire & Explosion D ■ Safety for Fire Inve ■ Appliance Fires	eath and Injuries	
Mon, Aug 14 0800 - 1700		NHFA & EMS Classrooms 5 & 6	Topics / Activities Incendiary Fires Managing Comple Interviewing	x Fire Investigations	
Mon, Aug 14 0800 - 1700		NHFA & EMS Classrooms 5 & 6	Topics / Activities ■ Planning the Inverse ■ Case Layout □ Fire Investigation		
Mon, Aug 14 0800 - 1700	°Ľ	NHFA & EMS Classrooms 5 & 6	Topics / Activities Fire Investigation	n Practical Exercise / Testing	
			We	ek 6	
Mon, Aug 14 0800 - 1700	උ	NHFA & EMS Classrooms 5 & 6	Topics / Activities ☐ Fire Ignition Test ■ Report Writing	ing	
	Week 7				
	#	Online		e initial Origin & Cause Report. vestigations & Testimony.	
			We	ek 8	
Mon, Aug 14 0800 - 1700	ද	NHFA & EMS Classrooms 5 & 6	Topics / Activities Curriculum Vitae (Expert Witness Ch Presenting Your C Group Project Rev	allenges ase to Prosecutors & Grand Juries	
			We	ek 9	
Mon, Aug 14 0800 - 1700	્ે	NHFA & EMS Classrooms 5 & 6	Topics / Activities Final Certification Investigation Final of instruction and is subject	Project Presentations	

This schedule represents a tentative sequence of instruction and is subject to change.



Division of Fire Standards and Training & Emergency Medical Services

Evaluation Methodology Matrix for Fire Investigator (NFPA®1033, 2022)

Standard	Methodology	Evaluation Details
4.1 General.		
4.1.7* In order to successfully complete the tasks identified in the JPRs of Sections 4.2 through 4.7, the fire investigator shall remain current in the subjects listed as "requisite knowledge" as they relate to fire investigations, which include the following: (1) Fire science: (a) Fire chemistry (b) Thermodynamics (c) Fire dynamics (d) Explosion dynamics (2) Fire investigation: (a) Fire analysis (b) Fire investigation methodology (c) Fire investigation technology (d) Evidence documentation, collection, and preservation (e) Failure analysis and analytical tools (3) Fire scene safety: (a) Hazard recognition, evaluation, and basic mitigation procedures (b) Hazardous materials (c) Safety regulations (4) Building systems: (a) Types of construction (b) Fire protection systems (c) Electricity and electrical systems (d) Fuel gas systems	Psychomotor	Skill Sheet FINV-12 Skill Sheet FINV-13
4.2* Scene Examination. Duties shall include inspecting, evaluating, and analyzing the fire scene or evidence of the scene, and conducting a comprehensive review of documentation generated during the examination(s) of the scene if the scene is no longer available, so as to determine the area or point of origin, source of ignition, material(s) ignited, and action or activity that brought the ignition source and materials together and to assess the subsequent progression, extinguishment, and containment of the fire.		



Standard	Methodology	Evaluation Details
4.2.1 Secure the fire ground, given marking devices, sufficient personnel, and special tools and equipment, so that unauthorized persons can recognize the perimeters of the investigative scene and are kept from restricted areas and all evidence or potential evidence is protected from damage or destruction.	Psychomotor	Students are provided all equipment during the Fire Investigation Scene Practical (Week 5, Day 4)
(A) Requisite Knowledge. Fire ground hazards, types of evidence, and the importance of fire scene security, evidence preservation, and issues relating to spoliation.	Cognitive	
(B) Requisite Skills. Use of marking devices.	Psychomotor	Fire Investigation Scene Practical (Week 5, Day 4)
4.2.2 Conduct an exterior survey, given standard equipment and tools, so that evidence is identified and preserved, fire damage is interpreted and analyzed, hazards are identified to avoid injuries, accessibility to the property is determined, and all potential means of ingress and egress are discovered.	Process	Students are provided all equipment during the Fire Investigation Scene Practical (Week 5, Day 4)
(A) Requisite Knowledge. The types of building construction and the effects of fire on construction materials, types of evidence commonly found in the perimeter, evidence preservation methods, the effects of fire suppression, fire behavior and spread, fire patterns, and a basic awareness of the dangers of hazardous materials.	Cognitive	
(B) Requisite Skills. Ability to assess fire ground and structural condition, observe the damage from and effects of the fire, and interpret and analyze fire patterns.	Process	Fire Investigation Scene Practical (Week 5, Day 4)
4.2.3 Conduct an interior survey, given standard equipment and tools, so that areas of potential evidentiary value requiring further examination are identified and preserved, the evidentiary value of contents is determined, and hazards are identified in order to avoid injuries.	Process	Students are provided all equipment during the Fire Investigation Scene Practical (Week 5, Day 4)



Standard	Methodology	Evaluation Details
	Wethodology	Evaluation Details
(A) Requisite Knowledge. The types of		
building construction and interior finish and the effects of fire on those		
materials, the effects of fire suppression,		
fire behavior and spread, evidence		
preservation methods, fire patterns,	Cognitive	
effects of building contents on fire	cognitive	
growth, the relationship of building		
contents to the overall investigation,		
weather conditions at the time of the		
fire, and fuel moisture.		
(B) Requisite Skills. Ability to assess		
structural conditions, observe the		
damage and effects of the fire, discover		
the impact of fire suppression efforts on	Process	Fire Investigation Scene Practical (Week 5, Day 4)
fire flow and heat propagation, and	Process	Fire investigation scene Fractical (week 5, Day 4)
evaluate protected areas to determine		
the presence and/or absence of		
contents.		
4.2.4 Interpret and analyze fire patterns,		
given standard equipment and tools and		
some structural or content remains, so		
that each pattern is identified and		
analyzed with respect to the burning		
characteristics of the material involved,		
the stage of fire development, the effects	Process	Students are provided all equipment during the Fire
of ventilation within the context of the		Investigation Scene Practical (Week 5, Day 4)
scene, the relationship with all patterns		
observed, and the understanding of the methods of heat transfer that led to the		
formation of the patterns identified and		
analyzed, and the sequence in which the		
patterns were produced is determined.		
(A) Requisite Knowledge. Fire		
dynamics, including stages of fire		
development; methods of heat transfer;		
compartment fire development; the		
interrelationship of heat release	Cognitive	
rate (HRR), form, and ignitibility of		
materials; and the impact and effects of		
ventilation on the creation of the fire		
patterns.		
(B) Requisite Skills. Ability to		
interpret and analyze the effects of		
burning characteristics of the fuel	Process	Fire Investigation Scene Practical (Week 5, Day 4)
involved and the effects of ventilation on		
different types of materials.		



Standard	Methodology	Evaluation Details
4.2.5 Interpret and analyze fire patterns, given standard equipment and tools and some structural or content remains, so that fire development, fire spread, and the sequence in which fire patterns were developed (i.e., sequential pattern analysis) are determined; methods and effects of suppression are analyzed; fire patterns and effects indicating a hypothetical area or areas of origin are recognized and tested; false or refuted hypothetical areas of origin are eliminated; and all fire patterns are tested against the data, such that the area(s) of origin	Process	Students are provided all equipment during the Fire Investigation Scene Practical (Week 5, Day 4)
is correctly identified. (A) Requisite Knowledge. Fire development and spread based on fire chemistry, fire dynamics including compartment fire development, fire spread, fire suppression effects, building construction, electricity and electrical systems, and fuel gas systems.	Cognitive	
(B) Requisite Skills. Ability to analyze variations of fire patterns on different materials with consideration given to HRR, form, ignitibility of the fuels involved, and the effects of ventilation; ability to understand the impact of different types of fuel packages on pattern creation; and ability to analyze and correlate information.	Process	Fire Investigation Scene Practical (Week 5, Day 4)
4.2.6 Examine and remove fire debris, given standard or, if necessary, special equipment and tools, so that fire patterns and fire effects concealed by debris are discovered and analyzed; all debris within the potential area(s) of origin is checked for fire cause evidence; potential ignition source(s) is identified; and evidence is preserved without investigator-inflicted damage or contamination.	Process	Students are provided all equipment during the Physical Evidence class (Week 3, Day 4) and the Fire Investigation Scene Practical (Week 5, Day 4)
(A) Requisite Knowledge. Basic understanding of ignition processes, characteristics of ignition sources, and ease of ignition of fuels; debris-layering techniques; use of tools, equipment, and special equipment during the debris search; types of fire cause evidence commonly found; understanding evidence spoliation and techniques to avoid it; and evidence collection and preservation methods and documentation.	Cognitive	



Standard	Methodology	Evaluation Details
(B) Requisite Skills. Ability to employ search techniques that further the discovery of fire cause evidence and ignition sources, use search techniques that incorporate documentation, and collect and preserve evidence.	Psychomotor	Physical Evidence class (Week 3, Day 4) Fire Investigation Scene Practical (Week 5, Day 4)
4.2.7 Reconstruct potential area(s) of origin, given standard and, if needed, special equipment and tools as well as sufficient personnel, so that all protected areas and fire patterns are identified and correlated to contents or structural remains; and items potentially critical to cause determination are returned to their prefire location as a means of hypothesis testing, such that the area(s) or point(s) of origin is discovered.	Process	Students are provided all equipment during the practical skills testing session.
(A) Requisite Knowledge. The effects of fire on different types of material and the importance and uses of reconstruction.	Cognitive	
(B) Requisite Skills. Ability to examine all materials to determine the effects of fire, identify and distinguish among different types of fire-damaged contents, and return materials to their original position using protected areas and fire patterns.	Psychomotor	Skill Sheet FINV-04
4.2.8 Inspect and analyze the performance of building systems, including fire protection, detection and suppression systems, HVAC, electricity and electrical systems, fuel gas systems, and building compartmentation, given standard and special equipment and tools, so that a determination can be made as to the need for expert resources; an operating system's impact on fire growth and spread is considered in identifying origin areas; defeated and failed systems are identified; and the system's potential as a fire cause is recognized.	Process	Students are provided all equipment during the practical skills testing session.
(A) Requisite Knowledge. Different types of fire protection, detection, suppression, HVAC, electricity and electrical systems, fuel gas systems, and building compartmentation such as fire walls and fire doors; types of expert resources for building systems; the impact of fire on various systems; common methods used to defeat a system's functional capability; and types of failures.	Cognitive	



Standard	Methodology	Evaluation Details
(B) Requisite Skills. Ability to determine the system's operation and its effect on the fire; identify alterations to, and failure indicators of, building systems; and evaluate the impact of suppression efforts on building systems.	Psychomotor	Skill Sheet FINV-05
4.2.9 Discriminate the effects of explosions from other types of damage, given standard equipment and tools, so that an explosion is identified and its evidence is preserved.	Process	Students are provided all equipment during the practical skills testing session.
(A) Requisite Knowledge. Different types of explosions and their causes, characteristics of an explosion, and the difference between low- and high-order explosions.	Cognitive	
(B) Requisite Skills. Ability to identify explosive effects on glass, walls, foundations, and other building materials; distinguish between low- and high-order explosion effects; and analyze damage to document the blast zone and origin.	Psychomotor	Skill Sheet FINV-06
4.3* Documenting the Scene. Duties shall include diagramming the scene, photographing, and taking field notes to be used to document scene findings, or to prepare a written report.		
4.3.1 Diagram the scene, given standard tools and equipment, so that the scene is accurately represented and evidence, pertinent contents, significant patterns, and area(s) or point(s) of origin are identified.	Product	Students are provided all equipment during the practical skills testing session.
(A) Requisite Knowledge. Commonly used symbols and legends that clarify the diagram, types of evidence and patterns that need to be documented, and formats for diagramming the scene.	Cognitive	
(B) Requisite Skills. Ability to sketch the scene, basic drafting skills, and evidence recognition and observational skills.	Psychomotor	Skill Sheet FINV-07
4.3.2 Photographically document the scene, given standard tools and equipment, so that the scene is accurately depicted and the photographs support scene findings.	Product	Students are provided all equipment during the practical skills testing session.
(A) Requisite Knowledge. Working knowledge of high-resolution camera and flash, the types of film, media, and flash available, and the strengths and limitations of each.	Cognitive	
(B) Requisite Skills. Ability to use a high-resolution camera, flash, and accessories.	Psychomotor	Skill Sheet FINV-07



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Standard	Methodology	Evaluation Details
(A) Requisite Knowledge. Types of evidence, authority requirements, and impact of removing evidentiary items on civil or criminal proceedings (exclusionary or fire-cause supportive evidence); types, capabilities, and limitations of standard and special tools used to locate evidence; types of laboratory tests available; packaging techniques and materials; and impact of evidence collection on the investigation.	Cognitive	
(B) Requisite Skills. Ability to recognize different types of evidence and determine whether evidence is critical to the investigation.	Psychomotor	Skill Sheet FINV-08
4.4.3 Select evidence for analysis, given all information from the investigation, so that items for analysis support specific investigation needs.	Psychomotor	Students will collect information during practical sessions.
(A) Requisite Knowledge. Purposes for submitting items for analysis, types of analytical services available, and capabilities and limitations of the services performing the analysis.	Cognitive	
(B) Requisite Skills. Ability to evaluate the fire incident to determine forensic, engineering, or laboratory needs.	Psychomotor	Skill Sheet FINV-08
4.4.4 Maintain a chain of custody, given standard investigative tools, marking tools, and evidence tags or logs, so that written documentation exists for each piece of evidence and evidence is secured.	Process	Students are provided all equipment during the practical skills testing session.
(A) Requisite Knowledge. Rules of custody and transfer procedures, types of evidence (e.g., physical evidence obtained at the scene, photos, and documents), and methods of recording the chain of custody.	Cognitive	
(B) Requisite Skills. Ability to execute the chain of custody procedures and accurately complete necessary documents.	Psychomotor	Skill Sheet FINV-08
4.4.5 Dispose of evidence, given jurisdictional or agency regulations and file information, so that the disposal is timely, safely conducted, and in compliance with jurisdictional or agency requirements.	Process	Students are provided with FSTEMS example policies and procedures.
(A) Requisite Knowledge. Disposal services available and common disposal procedures and problems.	Cognitive	
(B) Requisite Skills. Documentation skills.	Psychomotor	Skill Sheet FINV-08



Standard	Methodology	Evaluation Details
4.5 Interview. Duties shall include obtaining information regarding the overall fire investigation from others through verbal communication.		
4.5.1 Develop an interview plan, given no special tools or equipment, so that the plan reflects a strategy to further determine the fire cause and affix responsibility and includes a relevant questioning strategy for each individual to be interviewed that promotes the efficient use of the investigator's time.	Product	
(A) Requisite Knowledge. Persons who can provide information that furthers the fire cause determination or the affixing of responsibility, types of questions that are pertinent and efficient to ask of different information sources (first responders, neighbors, witnesses, suspects, and so forth), and pros and cons of interviews versus document gathering.	Cognitive	
(B) Requisite Skills. Planning skills, development of focused questions for specific individuals, and evaluation of existing file data to help develop questions and fill investigative gaps.	Psychomotor	Skill Sheet FINV-09
4.5.2 Conduct interviews, given incident information, so that pertinent information is obtained, follow-up questions are asked, responses to all questions are elicited, and the response to each question is documented accurately.	Process	Students will collect information during practical sessions.
(A) Requisite Knowledge. Types of interviews, personal information needed for proper documentation or follow-up, documenting methods and tools, and types of nonverbal communications and their meaning.	Cognitive	
(B) Requisite Skills. Ability to adjust interviewing strategies based on deductive reasoning, interpret and analyze verbal and nonverbal communications, apply appropriate legal requirements, and exhibit strong listening skills.	Psychomotor	Skill Sheet FINV-09
4.5.3 Evaluate interview information, given interview transcripts or notes and incident data, so that all interview data is individually analyzed and correlated with all other interviews, corroborative and conflictive information is documented, and new leads are developed.	Process	Students will generate interview transcripts and notes. Students will collect incident data during practical sessions.



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Standard	Methodology	Evaluation Details
(A) Requisite Knowledge. Types of		
interviews, report evaluation methods,	Cognitive	
and data correlation methods.		
(B) Requisite Skills. Data correlation		
skills and the ability to evaluate source	Psychomotor	Skill Sheet FINV-09
information (e.g., first responders and	1 Sychomotor	Skiii Sheee i ii v
other witnesses).		
4.6 Post-Incident Investigation. Duties		
shall include the investigation of all factors		
beyond the fire scene at the time of the		
origin and cause determination.		
4.6.1 Gather reports and records, given		
no special tools, equipment, or materials,		
so that all gathered documents are		
applicable to the investigation, complete,	Process	
and authentic; the chain of custody is		
maintained; and the material is admissible		
in a legal proceeding.		
(A) Requisite Knowledge. Types of		
reports needed that facilitate		
determining responsibility for the fire		
(e.g., police reports, fire reports, insurance policies, financial records,	Cognitive	
deeds, private investigator reports,		
outside photos, and videos) and location		
of these reports.		
(B) Requisite Skills. Ability to identify		
the reports and documents necessary		
for the investigation, implement the	Psychomotor	Skill Sheet FINV-10
chain of custody, and organizational	1 Sychomotor	Skiii Sheeci ii V
skills.		
4.6.2 Evaluate the investigative file, given		
all available file information, so that areas		
for further investigation are identified, the		
relationship between gathered documents	Process	Students will collect information during practical
and information is interpreted, and		sessions.
corroborative evidence and information		
discrepancies are discovered.		
(A) Requisite Knowledge. File		
assessment and/or evaluation methods,		
including accurate documentation	Cognitive	
practices, and requisite investigative		
elements.		
(B) Requisite Skills. Information		
assessment, correlation, and	Psychomotor	Skill Sheet FINV-10
organizational skills.		
4.6.3 Coordinate expert resources, given		
the investigative file, reports, and		
documents, so that the expert's		
competencies are matched to the specific	Process	Students will generate all needed data during the course
investigation needs, financial expenditures		of their preparation for final presentations.
are justified, and utilization clearly furthers		
the investigative goals of determining		
cause or affixing responsibility.		



Standard	Methodology	Evaluation Details
	Wethodology	Evaluation Betails
(A) Requisite Knowledge. How to		
assess one's own expertise, qualification		
to be called for expert testimony, types		
of expert resources (e.g., forensic, CPA,		
polygraph, financial, human behavior		
disorders, and engineering), and		
methods to identify expert resources.		
(B) Requisite Skills. Ability to apply		
expert resources to further the investigation by networking with other		
investigation by fletworking with other investigators to identify experts,		
questioning experts relative to their	Psychomotor	Skill Sheet FINV-11
qualifications, and developing a		
utilization plan for use of expert		
resources.		
4.6.4 Establish evidence as to motive		
and/or opportunity, given an incendiary		
fire, so that the evidence is supported by	Process	An incendiary fire will be produced during one of the
documentation and meets the evidentiary	1100033	burn demonstrations.
requirements of the jurisdiction.		
(A) Requisite Knowledge. Types of		
motives common to incendiary fires,		
methods used to discover opportunity,		
and human behavioral patterns relative		
to fire-setting.		
(B) Requisite Skills. Financial analysis,		
records gathering and analysis,		Skill Sheet FINV-09
interviewing, and interpreting and	Psychomotor	Skill Sheet FINV-10
analyzing fire scene information and	rsychomotol	Skill Street Filty-10
evidence for relationship to motive		
and/or opportunity.		
4.6.5 Formulate an opinion concerning		
origin, cause, or responsibility for the fire,		
given all investigative findings, so that the		
opinion regarding origin, cause, or	Process	Students will collect information during practical
responsibility for a fire is supported by the		sessions.
data, facts, records, reports,		
documents, scientific references, and		
evidence.		
(A) Requisite Knowledge. Analytical methods and procedures (e.g.,		
hypothesis development and testing,		
systems analysis, time lines, link		
analysis, fault tree analysis, and data		
reduction matrixing).		
(B) Requisite Skills. Analytical and		
assimilation skills.	Psychomotor	Skill Sheet FINV-10
4.7 Presentations. Duties shall include		
the presentation of findings to those		
individuals not involved in the actual		
investigations.		
investigations.		



Standard	Methodology	Evaluation Details
4.7.1 Prepare a written report, given investigative findings, so that the report accurately reflects the facts, data, and scientific principles on which the investigator relied; clearly identifies and expresses the investigator's opinions and conclusions; and contains the reasoning by which each opinion or conclusion was reached in order to meet the requirements of the intended audience(s).	Product	Students will collect information during practical sessions.
(A) Requisite Knowledge. Elements of writing, typical components of a written report, and types of audiences and their respective needs or requirements.	Cognitive	
(B) Requisite Skills. Writing skills, ability to analyze information, and determine the reader's needs or requirements.	Psychomotor	Skill Sheet FINV-12
4.7.2 Express investigative findings verbally, given investigative findings, notes, a time allotment, and a specific audience, so that the information is accurate, the presentation is completed within the allotted time, and the presentation includes only need-to-know information for the intended audience.	Process	Students will generate all needed data during the course of their preparation for final presentations, and present those findings to a panel of experts.
(A) Requisite Knowledge. Types of investigative findings, the informational needs of various types of audiences, and the impact of releasing information.	Cognitive	
(B) Requisite Skills. Communication skills and ability to determine audience needs and correlate findings.	Psychomotor	Skill Sheet FINV-13
4.7.3 Testify during legal proceedings, given investigative findings, so that the testimony accurately reflects the facts, data, and scientific principles on which the investigator relied; clearly identifies and expresses the investigator's opinions and conclusions; and contains the reasoning by which each opinion or conclusion was reached.	Process	Students will generate all needed data during the course of their preparation for final presentations, and present those findings to a panel of experts.
(A) Requisite Knowledge. Types of investigative findings, types of legal proceedings, professional demeanor requirements, and an understanding of due process and legal proceedings.	Cognitive	
(B) Requisite Skills. Communication and listening skills and ability to differentiate facts from opinion and determine accepted procedures, practices, and etiquette during legal proceedings.	Psychomotor	Skill Sheet FINV-13