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Purpose:

The methods and procedures presented in this outline address the areas which should be focused upon to assist the examiner in the proper examination and processing of video, digital and multimedia related evidence. The examination pathway followed by the examiner to achieve proper evidentiary results is further augmented and directed by the General Laboratory Standard Operating Procedures and the appropriate technical references maintained within the Multimedia and Image Enhancement Unit.

Responsibility:

Forensic Science Examiners assigned to the Unit

Procedure:

The following outline (documented on MMIE-SOP-26 Appendix 1) should be used for all persons newly assigned to the Multimedia and Image Enhancement Unit. In general, the trainee should observe between two to five cases for each section of the training. Mock cases will include a written report and use of Justice Trax unless not required by SOPs.

1. Overview of Laboratory

Overview of Laboratory	Date Completed	Initials of Trainee	Trainer's initials
GL 2.1 Laboratory Safety Checklist			
GL 14.1 General Laboratory			
Training Checklist			
Introduction to LIMS			
Introduction to Evidence Receiving			
Statement of Qualification			
completed			
CV and Transcripts provided to			
Quality Manager			

2. Analog Video Analysis

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In this section of the training, the trainee will learn about analog video and how these recordings are made and the analysis involved with this type of video. The trainee should complete three mock cases.

Analog Video Analysis	Date Completed	Initials of Trainee	Trainer's initials
Overview of analog video and			
assigned readings			
Types of analog video/audio			
Introduction to equipment used for			
analog video casework			
Repairing an analog tape			
(video/audio)			
Types of analysis for analog video			
Introduction to worksheets and			
wording used for analog video			
Introduction to sub-itemization and			
derivatives created for analog			
video/audio			
Reading of MMIE SOPs 02, 03, 04,			
05 and 07			
Review of video duplications –			
analog evidence			
Review of audio duplications –			
analog evidence			
Cases Observed:	Dates of Observation	on:	1

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Mock Cases duplications with	Comments by Trainer on Cases:
analog evidence both video/audio:	
Competency Test Administered:	Comments of Trainer on Competency Test:

3. Digital Image Analysis (Refer to MMIE SOP-02, 03, 04, 05, 06, 08, 09, 12, 13, 14 and 28) In this section of the training, the analyst will learn about different image formats and how to acquire images from video. The analyst will practice on three (3) mock cases of acquiring an image and then doing adjustments such as brightening or layering/frame averaging.

Digital Image Analysis	Date Completed	Initials of Trainee	Trainer's initials
Overview of still images and image			
analysis			
Review of SOPS: 02, 03, 04, 05, 06,			
08, 09, 12, 13, 14, 14 and 28			
Protecting digital media using write			
blockers			
Hash value review			
Metadata associated with digital			
media			

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Digital File Formats: JPEG, TIFF,	
RAW, BMP, MPEG, etc	
Different ways of	
acquiring/extracting still images	
Methods and software used for the	
analysis and enhancement of still	
images	
Sub-itemization of generated still	
images	
Worksheets and reports for image	
analysis;	
Cases Observed:	Dates of Observation:
Mock Cases still images	Comments by Trainer on Cases:
captured/acquired with report:	
Competency Test Administered:	Comments by Trainer on Competency Test:

4. Digital Video Analysis (Refer to MMIE SOP-02, 03, 04, 06, 08, 09, 12, 14, 16, and 28)
In this section of the training, the analyst will learn about different video formats and how to acquire video and audio from a file. The analyst will practice on three (3) mock cases of acquiring a video and doing adjustments such as levels adjustments.

Digital Video Analysis	Date Completed	Initials of Trainee	Trainer's initials
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Overview of digital video,		
compression and codecs		
Software programs used for analysis		
Proper methods for video analysis		
Acquiring segments of video and		
audio from a video file		
Converting video to different		
formats		
Creating a picture – in – picture of		
two videos		
Creating sub-items of video analysis		
cases		
Worksheets used for video analysis		
Cases Observed:	Dates of Observation:	
Mock cases completed with report:	Comments on Cases by Trainer:	
Competency Test Administered:	Comments on Trainer on Competency Test	

5. Redactions

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The analyst will understand the use of redactions and when it is used. The analyst will practice redactions on three (3) cases with the following types of scenarios: video redaction only, audio redaction only and combination of both.

Digital Video Redaction	Date	Initials of Trainee	Trainer's initials
	Completed		
Overview of digital video,			
compression and codecs			
Use of Media Info			
Software programs used for			
redaction			
Proper methods for conducting a			
redaction			
Acquiring still images and audio			
from video from Arbitrator			
Converting video to different			
formats			
Understanding of Body Cam			
Policy from A&O manual			
13.15.11			
Creating sub-items of redacted			
video cases			
Worksheets used for redactions			
Mock cases completed with	Comments on Cas	es by Trainer:	
report:			
	1		

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Competency Test Administered:	Comments on Trainer on Competency Test:	

6. Audio Analysis (Refer to SOP-02, 03, 04, 07, 08, 10 and 11)

In this section of the training, the analyst will learn about different audio formats and how to acquire audio from a file or analog media. The analyst will practice on five (5) mock cases of acquiring audio and doing adjustments such as equalization of volume, removal of noise, and clarification of speech.

Audio Analysis	Date Completed	Initials of Trainee	Trainer's initials
Overview of audio files, bit rates			
and types of codecs			
Introduction to software programs			
used of audio analysis			
Proper methods of audio analysis			
Converting audio to different			
formats			
Redacting audio files			
Sub-itemization of audio files			
Cases Observed:	Dates of Observati	ion:	
Mock cases completed with	Comments on Cas	es by Trainer:	
report:			

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Competency Test Administered:	Comments on Trainer on Competency Test:

7. DVR Analysis (Refer to MMIE SOP-02, 03, 04, 09 and 16)
In this section of the training, the analyst will learn about digital video recorders (DVR) and how to extract surveillance video from these recorders. The analyst will practice on five mock cases in total. Two (2) mock cases will consist of acquiring an video using the Unit's DVR. As part of the this section's training, the trainee will be evaluating video information from previously worked cases in which an archive disk is on file. The analyst will practice on three (3) such cases in which there is a time difference in the recording to real time.

DVR Analysis	Date Completed	Initials of Trainee	Trainer's initials
Overview of DVRs			
Types of DVRs (including			
manufacturers)			
Important considerations with			
DVRs: overwriting, date/time			
Proper methods of DVR analysis			
Photographing a DVR			
Exporting video from a DVR			
Other types of video capture			
Use of DVR Examiner			

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Worksheets used for DVR		
analysis		
Cases Observed:	Dates of Observation:	
Mock cases completed with	Comments on Cases by Trainer:	
report:		
Competency Test Administered:	Comments on Trainer on Competency Test:	

8. Video Retrievals (Refer to MMIE SOP-16)

Video Retrievals	Date Completed	Initials of Trainee	Trainer's initials
Initial call/email for a video			
retrieval and information needed			
from requestor			
Considerations of DVRs when			
scheduling with agency			
Equipment needed for retrieval			
Documentation needed on-scene			
Submission of case to lab and			
forms needed completed			
How to document video retrieved			

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at scene on worksheet			
Crime Scene Assistance Form			
Observation of five (5) retrievals:	Dates of Observation alo	ong with DVR model	
Three (3) video retrievals with senior analyst observation:	Comments on Cases by	Trainer:	

9. Comparative Analysis (Refer to MMIE SOP-02, 03, 04, 06, 12 and 13)

Comparitive Analysis	Date Completed	Initials of Trainee	Trainer's initials
Overview of comparisons			
How to set up a comparison			
Software used in comparisons			
Creating a comparison chart			
- Vehicle			
- Human subject			
- Clothing			
Limitations in comparisons			
Three (3) mock cases using a	Comments by Trainer on Mock Cases:		
vehicle, human subject and			

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clothing including report written.	
Competency Test Administered:	Comments by Trainer on Competency Test:

10. Court (Refer to SOP-GL-17)

Court Testimony	Date Completed	Initials of Trainee	Trainer's initials
Review of qualification and			
ethical responsibilities			
Dress and Demeanor			
Court Monitoring Procedures			
Technical Testimony (includes			
reading of Swinton ruling)			
Observations of Court Testimony:	Dates of Observations a		
Mock Court:	Comments from Trainer	r:	

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11. Competency and Approval for Casework and Technical Reviews

At the end of the training program, a memo/email shall be written to the Deputy Director stating that the analyst has successfully completed their training and has been administered a competency case that evaluated their analytical skills and their ability to clearly communicate their findings in a report.

The Deputy Director may review the training files or simply endorse this memo/email and generate a request to the Quality Unit requesting that this analyst be authorized to perform casework in that discipline.

The analyst will perform casework and after gaining experience in conducting analysis and reporting findings in a variety of evidence type/conclusions in the discipline, their experience will be evaluated for the ability to conduct technical reviews. This evaluation period may include technical review ghosting with an experienced examiner. Once the analyst has completed the evaluation period, a memo/email shall be written to the Deputy Director stating that the analyst has successfully completed their evaluation period and has been deemed competent to conduct technical reviews in that discipline.

The Deputy Director, after review, may endorse this memo/email and generate a request to the Quality Unit requesting that this analyst be authorized to perform technical reviews based upon the analyst's casework experience in that discipline.

11. Retraining

In the event it is identified that an examiner has failed a proficiency or technical and administrative reviews have identified an issue in the casework, the employee shall complete a retraining and competency period as detailed in SOP-GL-14 and SOP-GL-1.

References:

See MMIE SOP-24 Multimedia and Image Enhancement References

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