

**City of Carson City
Agenda Report**

Date Submitted: April 24, 2012 **Agenda Date Requested:** May 3, 2012
Time Requested: Consent Agenda

To: Mayor and Supervisors
From: Carson City Sheriff's Office

Subject Title: For Possible Action: To approve the Department of Homeland Security Grant FFY09-State Homeland Security Program, in the amount of \$7,750.40. (Sheriff Furlong)

Staff Summary: This grant will enhance the capabilities of the Carson City Sheriff's Office, Investigative Division. The grant will fund two investigators to attend the Cellebrite UFED Certification Course. This training will enhance our capabilities of conducting forensic examination of mobile devices.

Type of Action Requested: (check one)
 Resolution Ordinance
 Formal Action/Motion Other (Specify)

Does This Action Require A Business Impact Statement: Yes No

Recommended Board Action: I move to approve the Department of Homeland Security Grant FFY09-State Homeland Security Program, in the amount of \$7,750.40.

Explanation for Recommended Board Action:

Applicable Statute, Code, Policy, Rule or Regulation: N/A

Fiscal Impact: No Fiscal Impact.

Explanation of Impact: See Above

Funding Source: The funds for this project have been obtained through the State of Nevada, Department of Public Safety, Division of Emergency Management, Office of Homeland Security

Alternatives: No participation in the grant.

Supporting Material: Grant agreement and award letter.

Prepared By: Kathie Heath, Business Manager

Reviewed By:  Date: 4/12/12
(Department Head)
 Date: 4/24/12
(City Manager)

Randy Allen
(District Attorney)
Michael Blumenthal
(Finance Director)

Date: 4/24/12
Date: 4/24/12

Board Action Taken:

Motion: _____

- 1) _____
- 2) _____

Aye/Nay

(Vote Recorded By)



STATE OF NEVADA
DEPARTMENT OF PUBLIC SAFETY (DPS)
DIVISION OF EMERGENCY MANAGEMENT (DEM)
OFFICE OF HOMELAND SECURITY (OHS)
 2478 Fairview Drive, Carson City, Nevada 89701
 Telephone (775) 687-0300, Fax (775) 687-0322

Grant Award	
SUBGRANTEE: Carson City Sheriff's Office	CFDA / PROJECT NO: 97067HT9
ADDRESS: 922 E. Musser Street, Carson City, NV 89701	DEM DUNS: 607023848
PROJECT TITLE: Department of Homeland Security (DHS) Grant FFY09 - State Homeland Security Program (SHSP)	SUB-GRANTEE DUNS: 782889851
	FEDERAL GRANT FUNDS: \$7,750.40
GRANT PERIOD: 4/8/2012 - 7/15/2012	MATCHING FUNDS: \$0.00
Special Notes:	TOTAL: \$7,750.40

APPROVED BUDGET FOR PROJECT		
CATEGORY	TOTAL PROJECT COSTS	
Celebrite UFED Certification Course		\$7,750.40
TOTAL		\$7,750.40

This award is subject to the requirements (federal, state financial and program assurances) established by the federal government and Department of Public Safety and the Division of Emergency Management. This award is subject to availability of federal funding.
 Special Conditions: (If Applicable) This project is approved subject to such conditions or limitations as set forth on the attached page(s).
ATTACHMENTS: (1) FEDERAL & STATE ASSURANCES (2) FINANCIAL AND PROGRAM ASSURANCES (3) FEDERAL CERTIFICATIONS (4) SCOPE AND TIMELINE OF WORK (5) LINE ITEM DETAILED BUDGET

AGENCY APPROVAL	SUBGRANTEE ACCEPTANCE
Christopher B. Smith, Chief <small>Name and Title of Appointing Official</small>	Sheriff Kenneth Furlong <small>Name and Title of Appointing Official</small>
X	X
<small>Signature of Approving Official</small> <small>Date:</small>	<small>Signature of Approving Official</small> <small>Date:</small>

INVESTMENT JUSTIFICATION (IJ) BUDGET DETAIL

IJ TITLE: Cellular forensic data recovery course

CATEGORY	DESCRIPTION	AMOUNT	AEL REF.	FUNDING SOURCE		TOTAL
				SHSP		
SHSP sub-total		\$ -		\$ -	\$ -	\$ -
\$ -	Registration (2 Students)	\$ 4,400.00		\$ 4,400.00	\$ -	\$ 4,400.00
	Per Diem	\$ 760.00		\$ 760.00	\$ -	\$ 760.00
	Hotel	\$ 650.00		\$ 650.00	\$ -	\$ 650.00
	Air	\$ 870.40		\$ 870.40	\$ -	\$ 870.40
	overtime/backfill	\$ 920.00		\$ 920.00	\$ -	\$ 920.00
	rental car	\$ 150.00		\$ 150.00	\$ -	\$ 150.00
		\$ -		\$ -	\$ -	\$ -
		\$ -		\$ -	\$ -	\$ -
Total		\$ 7,750.40		\$ 7,750.40	\$ -	\$ 7,750.40

Brian Sandoval
Governor



Chris Perry
Director

Christopher B. Smith
Chief

Division of Emergency Management
Homeland Security
2478 Fairview Drive
Carson City, Nevada 89701

Telephone (775) 687-0300 • Fax (775) 687-0322 • <http://dem.state.nv.us/>

April 6, 2012

Sheriff Kenneth Furlong
Carson City Sheriff's Office
911 E. Musser Street
Carson City, NV 89701

Dear Sheriff Furlong

The Nevada Division of Emergency Management is pleased to enclose a Federal Fiscal Year 2009 State Homeland Security Program (SHSP) grant award in the amount of \$7,750.40.

The grant performance period is April 6, 2012 – July 15, 2012. The grant performance period is a condition of this grant award. All grant expenditures and reporting must be completed by the end of the grant performance period to receive reimbursement.

Attached to your award is a copy of the approved budget. Please be aware that any modifications to the approved budget will require approval in advance from this division through a "Project Change Request" form.

Please sign the original award, confirmation copy, and federal and state assurances, and return the original grant award and the signed federal and state assurances to the Nevada Division of Emergency Management, 2478 Fairview Drive, Carson City, Nevada, 89701. Please retain the confirmation copy, budget, and a copy of the assurances for your records.

Capitol Police • Criminal Justice Assistance • Division of Emergency Management • Emergency Response Commission
State Fire Marshal • Investigations Division • Highway Patrol Division • Office of Traffic Safety
Parole and Probation • Records & Technology Division • State Board of Parole Commissioners • Training Division

Sheriff Furlong
April 6, 2012
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If you have any questions, or if we can be of assistance with the administration of this grant, please contact the Homeland Security Grant Section, Nevada Division of Emergency Management, at (775) 687-0300.

Best Regards,

Christopher B. Smith, C.E.M.

jb

Enclosures

Craig Lowe - Training Award

From: "Jodi A. Bass" <jbass@dps.state.nv.us>
To: <dgonzales@carson.org>
Date: 4/11/2012 9:04 AM
Subject: Training Award
CC: "Kelli Anderson" <kanderson@dps.state.nv.us>
Attachments: DOC000.PDF



Good Morning Daniel

Attached you will find an unsigned copy of the award letter and award. I am in the process of obtaining the signatures needed and will scan and send you the signed award with the federal and state assurances as soon as I get them. Sorry about the delay. If you have any question please let me know

Thank you,

Jodi A. Bass

Nevada State Division of Emergency Management
2478 Fairview Drive
Carson City, NV 89706
(775)687-0386

Cellebrite UFED Ultimate Certification

This Certified Cellebrite UFED and Physical Pro course teaches participants an in-depth understanding of Cell Phone Forensic methodologies and the knowledge and skills needed to better utilize the Cellebrite Ultimate in conducting more thorough investigations. This course focuses on using both processes for logical extractions and processes known as HEX Dumps or physical acquisitions on cell phones and mobile handheld devices. Topics covered enable the user to perform a more thorough data analysis and examination using specialized techniques to interpret the variety of data formats associated with cell phone forensics.

Day One:

Introduction

- Mobile Phone Forensics v Computer Forensics Brief Introduction
- Data Extraction v Bit Stream Copy
- Phone Forensic Analysis Pyramid
- Awareness of Cell Site Analysis
 - Triangulation
 - Cell Site Data
- Policies and Procedures – DOJ/ACPO Guidelines

Basic Network Concepts

- History of Mobile Phone Technology
- Mobile Phone Telecommunication Generations
- Network Services and Protocols

Recoverable Data

- Network Service Provider
- Communication Device Artifacts
- Extraction
- Removable Media
- Flash Memory Card
 - NAND and NOR Memory Features
 - Wear Levelling
 - Bad Block Management
 - Error Correction Codes

UFED Ultimate Hardware Orientation

- Hardware Overview, Layout and Navigation
 - Orientation of Equipment
 - Functionality of Ports and Keys
- Software Overview and Interface
 - Menu Navigation
 - Data Recovery Functionality
 - UFED Report Manager

Day Two:

Mobile Phone Forensic Examination Methodology

- Key Principles in the Recovery of Evidence
 - Health and Safety
 - Traditional Forensic Evidence Handling
 - Chain of Custody
 - Data Integrity
 - PIN/Passcode/Passphrase Protected Devices
 - Transportation of Suspect Devices
 - Preservation of Extracted Data

Faraday Considerations

Photographic Survey ZRT (Practical)

UFED Logical Extraction Methodology

- SIM/USIM/CSIM Extraction, Preservation, Basic Analysis and Reporting (Practical)
- GSM/CSM Device Logical Extraction, Preservation, Basic Analysis and Reporting (Practical)
- SIM ID Clone (Practical)
- Flash Memory Card (Practical)

* During these sessions participants will become familiar with the extraction of potential evidence by cable, Infrared and Bluetooth to a PC, SD Memory Card and Thumbdrive storage devices

Day Three:

UFED Physical Analyzer

- Installation and Orientation of Reporting Tool

UFED Ultimate

- Hexadecimal Data Extraction and Read Theory
- Using Flasher Boxes in Conjunction with UFED Ultimate

Mathematical Concepts

- Understanding the basic concepts of data formats
 - Bits, Bytes and Nibbles
 - Reverse and Inverse Nibbles
 - Binary – Base 2
 - HEX – Hexadecimal - Base 16
 - ASCII and Unicode
 - XOR Mechanism

Security Codes

Contact/Address Book Lists

Date and Time Stamps

- Identification and Pattern Analysis
 - Nokia Series 30, Nokia Series 40 +, GSM, Motorola, iPhone, Samsung (Swift) and BlackBerry

Day Four:

Call Record Details

- Outgoing/Missed/Received Call Records
 - Single/Multiple Call Entries with and without Contact Record held within the Device

Short Message Service (SMS) – Text Messaging

- ASCII and Unicode Pattern Identification and Analysis
- Encoded SMS - Protocol Data Unit (PDU)
 - Manual Encoding and Decoding PDU Traditional and Modern Methods
 - Automated Pattern Identification and Analysis

Multimedia File Analysis

- Pattern Analysis and Identification of Multimedia Files
 - Manual Carving and Reconstruction of Multimedia Files
 - Automated Carving and Reconstruction of Multimedia Files

Day Five:

Review and Practical Exercises

- Review as Required by Participants
- Practical Exercises Recovering, Preserving, Analysis and Report Writing of the Topics Covered Throughout the Week

Certified Theory Exam

- 100 Multi Choice Questions

Certified Practical Exam - UFED File System and Physical Extraction Methodology

- GSM/CSM Device File System and Physical Extraction, Preservation, Analysis and Reporting