State of Michigan
MICHIGAN COMMISSION ON LAW ENFORCEMENT STANDARDS
Michigan Justice Training Competitive Grant Program
2021 GRANT APPLICATION

SECTION 1 - IDENTIFICATION

APPLICANT AGENCY Michigan State Police	SIGMA ID/ADDRESS CODE 38-600014

STREET ADDRESS/CITY/ZIP
7150 Harris Dr. Dimondale Michigan 48821

TRAINING CONSORTIUM (if applicable)
Michigan Technology & Investigations and Forensic Training Consortium

PROJECT TITLE (Limit 45 characters)
Building Forensic & Investigative Capacity in Technology

START DATE January 1, 2021	END DATE December 31, 2021	GRANT FUNDS REQUESTED $ 96,127.66

AUTHORIZED OFFICIAL (PERSON AUTHORIZED TO ENTER INTO AGREEMENTS)

☑ *As the Authorized Official, I have read and agree to all conditions set forth in the 2021 Grant Manual.*

NAME AND TITLE
D/F/Lt. James Ellis

STREET ADDRESS/CITY/ZIP
7150 Harris Dr. Dimondale Michigan 48821

TELEPHONE (Direct) 734-735-4296	E-MAIL ADDRESS EllisJ3@michigan.gov

SIGNATURE	DATE May 12, 2020

PROJECT ADMINISTRATOR (PERSON RESPONSIBLE FOR IMPLEMENTING AND REPORTING THE TRAINING)

☑ *As the Project Administrator, I have read and agree to all conditions set forth in the 2021 Grant Manual.*

NAME AND TITLE
Ms. Sherie Martens, Grant Coordinator

STREET ADDRESS/CITY/ZIP
7150 Harris Dr. Dimondale Michigan 48821

TELEPHONE (Direct) 517-599-8522	E-MAIL ADDRESS MartensS@michigan.gov

SIGNATURE Sherie Martens	DATE May 13, 2020

FINANCIAL OFFICER (PERSON RESPONSIBLE FOR GRANT ACCOUNTING)

☑ *As the Fiscal Officer, I have read and agree to all conditions set forth in the 2021 Grant Manual.*

NAME AND TITLE
Ms. Tara Semenchuk, Accountant

STREET ADDRESS/CITY/ZIP
7150 Harris Dr. Dimondale Michigan 48821

TELEPHONE (Direct) 517-284-3297	E-MAIL ADDRESS Semenchukt@michigan.gov

SIGNATURE Tara Semenchuk	DATE 5/15/2020

By authority of P.A. 302 of 1982, as amended. Submission of this application is required to participate in this program.

Applications must be submitted to MCOLES via email to thelend15@michigan.gov no later than

State of Michigan
MICHIGAN COMMISSION ON LAW ENFORCEMENT STANDARDS
Michigan Justice Training Competitive Grant Program
2021 GRANT APPLICATION

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SECTION 2 - PROJECT NARRATIVE
A. PROBLEM IDENTIFICATION
Describe the problem or issue the training is expected to address. Connect the proposed training to the documented need. Explain why this proposal should be grant funded. **Refer to Page 18 of the Grant Manual**

The Michigan State Police (MSP) recognizes the need for additional resources to help protect children from sexual predators as well as the general population of Michigan from cyber criminals perpetuating fraud and financial crimes. The state of Michigan currently has over 44,080 registered sex offenders and has identified well over 17,000 victims of child sexual exploitation since 1995.

From 2016 to 2019 calls for service increased 12% statewide, and during this timeframe the Intelligence Operations Division expanded its Cyber Section footprint by hiring additional civilian and enlisted staff in all of its Computer Crimes Unit (CCU) locations. Requests for service have increased by 2% to date in 2020 compared to the same timeframe in 2019. The Cyber Section is currently on pace to increase requests for service to over 4080 incidents in 2020.

Forensic examination of mobile devices and computer evidence suggests that children are increasingly exposing themselves to the risks of exploitation through their own dangerous behavior by engaging in self-manufacturing of pornography (i.e., sexting). Public education relative to the risks of cyber exploitation is presently inadequate compared to the number of children using the Internet who are exposed to these dangers. The number of children who can be rescued from online sexual predators and the number of child sexual predators who can be incarcerated is limited only by the availability of investigative resources and the Michigan Internet Crimes Against Children (MI-ICAC) Task Force's subsequent ability to analyze recovered digital evidence.

Statistics released by the Federal Trade Commission (FTC) indicate over 650,527 Americans were victims of identity theft in 2019 with losses totaling over $1.9 billion. Over 35% of identity theft victims were credit card related with 42% involving new accounts taken over or created by criminals. In Michigan, statistics indicate there are 135 victims per 100,000 people, ranking Michigan as the 21st in the United States where citizens are most likely at risk of identity theft. This further highlights the need for enhanced training for investigating agencies. The Consumer Sentinel Network Data Book is produced annually using complaints received by the FTC's Consumer Sentinel Network. That includes not only complaints made directly by consumers to the FTC, but also complaints received by state and federal law enforcement agencies, national consumer protection organizations and non-governmental organizations.

Although, identity theft complaints increased from 14.31% in 2018 to 20.33% in 2019, with 29% decrease of 2019 consumers reporting that their data was used to commit tax fraud, there was a jump in those consumers who reported that their stolen data was used for credit card fraud (new and existing account), This figure rose from nearly 24% in 2018 to more than 88% in 2019, according to the FTC's 2019 Consumer Sentinel Network Data Book. In 2019, 3.2 million complaints were entered into the Consumer Sentinel Network.

Effects of the Problem on the Target Population and Target Community

A growing body of research documents the prevalence of Internet crime against children. However, research on the effects of such crimes on children and others (e.g., Internet users, parents of victims, and law enforcement personnel who investigate these crimes) is less available. Anecdotal evidence of negative effects includes, but is not limited to, victim suicide, disintegration of the victim's family structure, community isolation of the victim and his/her family, and an increasing demand for mental health counseling services. Some resources, such as the Dr. Sharon Cooper videos, found at www.netsmartz.org, reflect efforts to collect anecdotal data on topics such as online harassment and the negative impact of sexual images on children. Other research into online and Internet based fraud crimes from the Federal Bureau of Investigation, National Infrastructure Protection Center (FBI NIPC) indicate new methods for victimization. These methods include 'spoofing' (manufacturing replica websites for legitimate businesses), 'phishing' schemes (sending email requesting sensitive personal information), and 'hacking' where systems record, and databases are compromised by an unprotected computer. The financial hardships these crimes create can be overwhelming to victims.

Previous/Current Attempts to Address the Problem

Creation of MI-ICAC & Multijurisdictional Task Force (MJTF)Training Consortium

The MSP was first awarded a U.S. Department of Justice (DOJ) ICAC grant in June 2002. The MSP created the statewide MI-ICAC Task Force with this initial grant funding. The MSP uses DOJ grant funds to compensate overtime for 16 child exploitation forensic examiners and provide overtime to MI-ICAC law enforcement. The DOJ grant funds also provide computer hardware, software and training support to 48 statewide affiliate agencies including federal, state, and local law enforcement agencies. Additionally, since 2003, the MSP has received Michigan Law Enforcement Training Funds to provide training for investigators on constantly emerging and changing technology. The demand and necessity for training is critical.

The MSP Cyber Section continues to be the primary MI-ICAC statewide investigative and forensic resource for the state of Michigan. The MI-ICAC Task Force includes 48 affiliate law enforcement agencies throughout the state of Michigan. Every affiliate has made a formal commitment to investigate technology-related child sexual exploitation cases and has allocated part-time investigative or forensic resources. It is the intent of this application to leverage Michigan Law Enforcement Training Funds to enhance law enforcements ability to adequately respond to a variety of technology initiated criminal acts. This will be accomplished through the combined efforts of the Michigan Technology Investigations and Forensic Training Consortium (MTI-FTC).

Collaboration with Law Enforcement Affiliates and MSP Cyber Section Growth

In 2018, the MSP Cyber Section hired 14 detective troopers to specifically address proactive investigations utilizing specialized software to locate and identify child predators. The detective troopers and investigative affiliates have received specialized training and generated over 956 investigations involving online child sexual exploitation many involving active criminal sexual conduct cases with child victims identified.

Of the 48 current MI-ICAC affiliates, 33 are digital forensic examiners who provide forensic evidence analysis for their own jurisdictions, in addition to ICAC related cases. Affiliates receive training and equipment from the MI-ICAC and the MSP via PA 302 grant funds, allowing them to conduct most of their own investigations. These partnerships are an essential component to the MI-ICAC's and the MTI-FTC's success and ensuring the safety of Michigan's citizens.

This training is important to the criminal justice community. It enables law enforcement professionals to keep pace with the constantly changing environment of technology related crime and respond to the growing problem of criminals using technology as a conveyance to their malicious and dangerous activities. By offering this training to law enforcement partners from across the state, investigators are prepared to be front-line first responders in major technology crimes. The MSP views the training of external partners as a critical function and modality for public safety. Limited MSP resources make it that we can no longer "go in alone" in the area of technology crime investigation. The MSP needs to leverage all partners to address critical, and in many cases, time-sensitive case work.

SECTION 2 - PROJECT NARRATIVE
B. TRAINING OBJECTIVES
Describe the subject matter for each course/topic. Provide global objectives in terms of outcomes, stating what the trainees are expected to know and do as a result of this training. **Refer to Page 18 of the Grant Manual**

Training in the use of hardware technology and forensic software tools is critical to maximize the efficiency and effectiveness of both digital forensic examiners and investigators. Digital forensic training is constantly evolving as new information technologies emerge. User migration from standard 'in home' computing has given way to mobile computing and unique smaller digital devices capable of accessing the Internet. Smartphones, computer tablets, smartwatches, fitness trackers (i.e. Fitbit), GPS units, and even vehicles now can enhance or facilitate crimes previously undetected using free wireless Internet connections or store vast amounts of incriminating data in non-traditional ways.

For example, in July of 2016, the MSP Cyber Section, CCU investigated an incident where a suspect utilized Craigslist to solicit for sex and killed a couple and their unborn child after the victims arranged via the Internet to meet him for sex. The ability to search the victim's computer and mobile phones for their Internet activities provided connections to their Craigslist advertisements and enabled investigators to identify the suspect. As a result of this case and others, it is the desire of the MSP to train MTI-FTC members in the tracking and forensic analysis of digital cellular and other mobile devices. Training members in the analysis, investigation, and collection of evidentiary material related to wireless and mobile technologies is the focus and intended use for the PA 302 Competitive Grant funds. Just as consumer electronics and technologies change, the vendors of forensic software tools and utilities change as well. It is essential for investigators and analysts to attend vendor specific training for recovery of evidence software.

The MSP Cyber Section, MI-ICAC, and the MTI-FTC determine training needs on a statewide basis for all partner and affiliate agencies. A top priority is to ensure that participating agencies and officers achieve a minimum level of proficiency in the investigation and analysis of Internet technologies and devices. Advanced or specialized training addressing regional needs will be given consideration. When practical, training will be brought to Michigan to minimize expenses relative to travel and per diem. Additionally, a key factor in the successful prosecution of high technology cases is the ability of the examiner, investigator or analyst to testify to the capability of the hardware and software tools used to develop the case at hand.

Law enforcement personnel must attend courses which deal with the manual recovery of evidence using "old fashioned" methods employing DOS based programs to develop a solid understanding of how digital data is written to various media types. It is for this reason basic level training courses are being written into this grant request to benefit MTI-FTC members. This allows the forensic examiner to confidently explain in court precisely how automated data recovery tools produce evidentiary material. As a follow-up to court room testimony essentials, it is also the intent of the MSP to enhance the ability of investigators and analysts to receive training in court room procedures and the ability to withstand a rigorous and knowledgeable criminal defense cross examination.

In-state training opportunities have been identified which will allow for and provide this critical skill in a cost-neutral manner by utilizing existing staff and affiliate attorneys.

The following training courses are considered critically important to the MSP Cyber Section and MTI-FTC:
Forensic Training Programs Syllabuses:

1) **International Association of Computer Investigative Specialists (IACIS)- Basic Computer Forensic Examiner (BCFE)**

   The IACIS BCFE training conference is a 76-hour program that provides fundamental study of computer operating systems, file systems, and various computer forensics concepts and methodologies. Following the training event, candidates may enroll in the Certified Forensic Computer Examiner (CFCE) program. The external CFCE program is available to those whom the IACIS Certification Committee determines have a commensurate level of training and computer forensics experience.

   Topics include:
   - Pre-examination Procedures and Legal Issues–search and seizure, legal process preparation, and rules of evidence as applicable to computer forensics, chain of custody of seized items, wired and wireless networking implications relating to search and seizure, forensic software, and acquisition of Random Access Memory (RAM).

   - Media Examination and Analysis–Forensically sound hardware and software environment, validation of forensic hardware, software and forensic examination processes, hard disk interfaces to include EIDE, SATA, SCSI and SSD, validation of forensically sterile media, generation of forensic image files, validation of forensic copies, physical and logical structures of media, checksums, FAT and NTFS file systems, numbering systems, recovery of deleted data and file fragmentation.

   - Data Recovery–recovery of deleted file and folders manually and with automated tools, file header and file extension recognition, recovery of deleted, hidden, and encrypted partitions, Windows operating systems, email clients, instant messaging/chat and peer-to-peer clients, Internet browsers.

   - Specific Analysis of Recovered Data–hibernation files, page and swap files, link files, thumbnail stores, event logs, configuration files, recycle bin records, encrypted files and partitions, compound files, metadata extraction, analysis of Windows Registry hives, Internet history files from web browsers.

   - Reporting and Exhibits–draft professional examination reports for non-technical audiences that include findings and conclusions with results that can be validated by an independent examination, prepare complete and thorough document of forensic examination processes and procedures to include testing and validation as well as evidence handling activities.

   - Defense and Presentation of Findings–draw sound conclusions on examination findings, explain and present through exhibits on complex technical concepts in terms easily understood by non-technical persons.

2) **IACIS Advance: Mobile Device Forensics (MDF)**

The IACIS MDF Training Program is a 36-hour course of instruction, offered over five (5) consecutive days. The program is designed to provide students with detailed study of the examination of mobile devices including cell phones and tablets. During instruction, students will become familiar with the way tools recover cell phone data, and the type of extractions. Students will analyze the results by diving deep within the file systems of mobile devices, and recovering data which tools frequently miss, learning to recognize and decode that data by hand. Students will become familiar with the latest capabilities for by passing locked devices running Apple's iOS and several versions of Android. The hands-on practical exercises use some of the best commercial and open source tools available.

Topics include:
- Acquiring file system and physical images from phones, to include handling and procedures for locked devices. Students will learn how to acquire cell phone data, and the different types of techniques to obtain the most relevant data. Students will become familiar with accessing locked iOS and Android devices, using a variety of techniques including bypassing software, flasher boxes, and an introduction to JTAG, ISP, and Chip Off.
- Students will learn and practice bypassing current Android OS limitations, allowing a physical image from a phone running Kit Kat and higher. There are multiple hands on practicals which include using custom recovery and rooting Android phones to bypass the locks. These methods allow for a full physical extraction of the devices, which commercial tools cannot gain access to due to operating system restrictions. There is some usage of both Windows command line and Linux to conduct the practical. All the commands and options are explained in detail, no previous command line experience needed.
- Details on Android and iOS file systems, their structures, and formats. Students will learn through hands on how the file systems are laid out in both iOS and Android, allowing them to find the data they are looking for quickly and be able to interpret it. This knowledge will carry over to new releases of the operating systems; ensuring students can continue to stay current.
- Validating data obtained from forensic tools, including data that tools miss, learn to interpret and recognize data from apps phones use. Students will be able to take any application found on a phone, and be able to recognize, interpret and report on its data.
- Examples of apps are KiK, Photovault, Snapchat, and the other 125,000 chat applications available. Students will learn and conduct both manual and automated SQLite recovery methods, ensuring success in their future exams using various tools. NAND Ram Architecture and storage, carving data from those spaces–learn how cell phones store their data at the physical level, which allows the carving of "deleted" data and recovery of data from damaged phones, or phones which have been JTAG'd or a chip off conducted on.
- Obtaining and processing iOS backup files, both manually and using automated tools.
- Using Wi-Fi data as part of investigations.

PREREQUISITE: IACIS Membership Required. Basic Computer Forensic Examiner [BCFE] course AND completion of the Certified Forensic Computer Examiner [CFCE] certification is highly recommended, but not required.

3) The 2021 Techno Security Training and Digital Forensic Conference

    a) **The 2021 Techno Security & Digital Forensics Conference** will be held in multiple locations in during calendar year 2021:
- (1) Myrtle Beach, North Carolina, May 30-June 2, 2021
- (2) San Diego, California, March 8-10, 2021
- (3) Denver, Colorado, October 25-27, 2021

       The 2021 Techno Security Training and Digital Forensic Conferences aim to raise international awareness of developments, teaching, responsibilities, and ethics in the field of IT security and digital forensics.

       This conference promises to be the international meeting place for IT security professionals from around the world. The conference will feature some of the top speakers in the industry and will raise international awareness towards increased education and ethics in IT security. The Techno Security Training and Digital Forensic Conference has grown into one of the most important resources for federal, state and local law enforcement digital forensic specialists, and cybersecurity industry leaders from around the world. It is known as a world-class training and networking event now having had attendees register from 52 different countries.

       In 2019, the Techno Security Training and Digital Forensic Conferences welcomed 1,639 verified attendees. Participants hailed from over 41 states, the District of Columbia, and from 52 different countries. Each year the event management team works closely with sponsors and relevant industry associations to identify and qualify appropriate professionals ensuring that they were of the highest caliber.

4) SANS FOR518: Mac and iOS Forensic Analysis and Incident Response

SANS FOR518: Mac and iOS Forensic Analysis and Incident Response is a 44-hour course of instruction, offered over six (6) consecutive days.

This course provides the techniques and skills necessary to take on any Mac or iOS case without hesitation. The intense hands-on forensic analysis and incident response skills taught in the course will enable analysts to broaden their capabilities and gain the confidence and knowledge to comfortably analyze any Mac or iOS device. In addition to traditional investigations, the course presents intrusion and incident response scenarios to help analysts learn ways to identify and hunt down attackers that have compromised Apple devices.

FOR518: Mac and iOS Forensic Analysis and Incident Response will teach students:

- Mac and iOS Fundamentals: How to analyze and parse the Hierarchical File System (HFS+) and Apple File System (APFS) by hand and recognize the specific domains of the logical file system and Mac-specific file types.

- User Activity: How to understand and profile users through their data files and preference configurations.

- Advanced Intrusion Analysis and Correlation: How to determine how a system has been used or compromised by using the system and user data files in correlation with system log files.

- Apple Technologies: How to understand and analyze many Mac and iOS-specific technologies, including Time Machine, Spotlight, iCloud, Document Versions, FileVault, Continuity, and FaceTime.

FOR518: Mac and iOS Forensic Analysis and Incident Response aims to train a well-rounded investigator by diving deep into forensic and intrusion analysis of Mac and iOS. The course focuses on topics such as the HFS+ and APFS file systems, Mac-specific data files, tracking of user activity, system configuration, analysis and correlation of Mac logs, Mac applications, and Mac-exclusive technologies. A computer forensic analyst who completes this course will have the skills needed to take on a Mac or iOS forensics case.

SECTION 2 - PROJECT NARRATIVE
C. TRAINING METHODS
Describe how the training will be delivered for each course/topic. Identify program developers and instructors and describe their qualifications. Outline the method(s) of presentation. Include the hours of training and where the training will occur. Describe the training materials that will be developed or provided. **Refer to Page 19 of the Grant Manual**

Comprehensive training methods will be employed to maximize the retention of training material and forensic data recovery techniques. Due to the technical nature of the training material presented, much of the coursework is instructor led, "hands on" or lab-style where students actively participates in exercises meant to nurture the learning process and enhance the retention of techniques and procedures necessary to successfully complete investigative and forensic processes. For example, two primary vendors who produce software tools used for analysis provide each student with a forensic recovery workstation where the actual software utility is used in class on practical exercises. These lab computers are "mobile" and can be brought to Michigan and set up in a local classroom environment. When practical, training will be brought in state to reduce costs saving funding which would otherwise be allocated for per diem and travel. In the case of the "Court Proceedings and Testimony" course, students will be given fictitious case material to study, then participate in a "mock trial" proceeding where they participate in a cross examination by an actual high-tech crime prosecuting attorney acting in the role of criminal defense. Between actual hands-on training, mock trial scenario based training and typical classroom discussion all adult learning styles will be represented. As a corollary, assessment and proficiency testing of all students is required for a vendor specific software training course. This practical exercise at program conclusion is an effective metric as to whether the learning objectives were met.

For those courses which result in forensic certification, external third-party review of a body of work completed by an investigator or analyst is completed and measured to demonstrate proficiency. Typically, the host vendor or training proctor administers this test. If an examiner does not satisfactorily complete the assessment, no certification or credential is awarded. Active participation and testing are required to validate knowledge, comprehension, retention, and understanding.

The MSP, Cyber Section recognizes training dollars are limited and allowing civilians and officers to attend provides value-added benefits. It is the intent of this grant project to leverage these training funds to their absolute maximum potential with measurable outcomes at course conclusion.

SECTION 2 - PROJECT NARRATIVE
D. EVALUATION
In addition to participant feedback, describe how the participants will be evaluated on their acquisition of knowledge for each course/topic. **Refer to Page 19 of the Grant Manual**

As the administrator for the 2021 PA 302 Competitive Grant program, it is critical to establish performance metrics which validate the quality, method, and benefit of MJTF sponsored training. Evaluation can be provided by the vendor at the conclusion of the course to measure proficiency, but also "evaluation" is relative to the students attending the course and receiving the materials and training content. Given the importance of securing supplemental grant funding for training, it is critical the Project Administrator ensure identified vendors are delivering a quality product in the form of education and training. The goal of the evaluation is to demonstrate knowledge in reality-based assessments. To this end, the following points will be used to generate a student evaluation form at the conclusion of each MJTF funded training course.

Ensure students are evaluating what you want them to assess
The point of the evaluation is for the Project Administrator to see the specific aspects where instructors do well and the identified areas for improvement. Efforts will be made to clarify what students are evaluating. Listing the criteria to be evaluated by the students is useful and may include organization, clarity, and knowledge of the instructor course content and, instructional effectiveness.

Define the numerical ratings for different categories
For each of the categories students are asked to evaluate, students will be asked to rate the quality of instruction. Instead of rating the proctor with subjective descriptors such as excellent, good, etc., the evaluations will ask the students about how much the student agrees with a statement:

> *The material was presented in a clear manner that facilitated understanding*
> *1–strongly agree; 2–agree; 3–neutral; 4–disagree; 5–strongly disagree*

Plenty of space for student comments
Inevitably, students often want to finish the evaluations as fast as possible to conclude the training day, hence the rapid circling of "1" for rating every single category. Students will notice a large amount of open area for comment on these forms. Unfortunately, numbered ratings do not mean much. Comments are much more helpful. By leaving adequate space for written comments, students will feel some obligation to complete this critical aspect of the evaluation.

Students will be given plenty of time to complete course evaluations
This will reduce the possibility of rushing quickly through the metric to generally gauge the quality of the materials presented.

SECTION 3 – COURSE DETAIL
Complete the Course Detail section for *__each topic/course__* included in your proposal. Copy and insert this page into your application as many times as needed.
Refer to Page 20 of the Grant Manual

Course Details			
Course Title			
IACIS–BCFE (Basic Computer Forensic Examiner)			
Training Location			
Out of State – Orlando, Florida			
Maximum Participants	Minimum Participants (2/3 of Max)	Hours of Training Per Session	Number of Sessions
2	2	80	1

Cost Breakdown			
Per Session Costs	*Total Costs*	*Grant Share*	*Match Share*
Personnel	$	$	$
Contractual Services	$	$	$
Tuition	$5,990.00	$2,995.00	$2,995.00
Travel	$5,196.00	$2,598.00	$2,598.00
Supplies & Operating	$	$	$
Equipment	$	$	$
Total *Per Session* Costs	$11,186.00	$5,593.00	$5,593.00
Total *Course* Costs	$11,186.00	$5,593.00	$5,593.00

NOTES:

The IACIS BFCE training conference will be held April 26-May 7, 2021, in Orlando, Florida. This is a 76-hour training program that provides fundamental study of computer operating systems, file systems, and various computer forensics concepts and methodologies. Following the training event, candidates may enroll in the CFCE Certification program. The external CFCE program is available to those whom the IACIS Certification Committee determines have a commensurate level of training and computer forensics experience.

Course Details			
Course Title			
IACIS Advance: Mobile Device Forensics (MDF)			
Training Location			
Out of State–Orlando, Florida			
Maximum Participants	Minimum Participants (2/3 of Max)	Hours of Training Per Session	Number of Sessions
6	4	36	1

Cost Breakdown			
Per Session Costs	*Total Costs*	*Grant Share*	*Match Share*
Personnel	$	$	$
Contractual Services	$	$	$
Tuition	$8,970.00	$5,980.00	$2,990.00
Travel	$8,004.00	$2,668.00	$5,336.00
Supplies & Operating	$	$	$
Equipment	$	$	$
Total *Per Session* Costs	$16,974.00	$8,648.00	$8,326.00
Total *Course* Costs	$16,974.00	$8,648.00	$8,326.00

NOTES:

The IACIS MDF training program is a 36-hour course of instruction, offered over five (5) consecutive days. The program is designed to provide students with detailed study of the examination of mobile devices including cell phones and tablets. During the course of instruction, students will become familiar with the way tools recover cell phone data, and the type of extractions.

Course Details			
Course Title			
Techno Security & Digital Forensics Conference			
Training Location			
Out of State–Myrtle Beach, South Carolina			
Maximum Participants	Minimum Participants (2/3 of Max)	Hours of Training Per Session	Number of Sessions
10	6	32	1

Cost Breakdown			
Per Session Costs	*Total Costs*	*Grant Share*	*Match Share*
Personnel	$	$	$
Contractual Services	$	$	$
Tuition	$9,950.00	$6,633.33	$3,316.67
Travel	$15,160.00	$5,053.33	$10,106.67
Supplies & Operating	$	$	$
Equipment	$	$	$
Total *Per Session* Costs	$25,110.00	$11,686.66	$13,423.34
Total *Course* Costs	$25,110.00	$11,686.66	$13,423.34

NOTES:

The 2021 Techno Security & Digital Forensics Conference will be held in multiple location in during calendar year 2021:
>   (1) Myrtle Beach, North Carolina, May 30-June 2, 2021.
>   (2) San Diego, California, March 8-10, 2021.
>   (3) Denver, Colorado, October 25-27, 2021.

These conferences are an international meeting place for IT Security professionals from around the world. The conferences will feature some of the top speakers in the industry and will raise international awareness towards increased education and ethics in IT security. The Techno Security & Digital Forensics Conferences are specifically dedicated to federal, state and local law enforcement forensic specialists, corporate and private forensic examiners, industry leaders, and academic researchers performing Mobile Device Forensics.

Course Details			
Course Title			
SANS FOR518: Mac and iOS Forensic Analysis and Incident Response			
Training Location			
In State–Michigan State Police Academy			
Maximum Participants	Minimum Participants (2/3 of Max)	Hours of Training Per Session	Number of Sessions
15	10	44	1

Cost Breakdown			
Per Session Costs	*Total Costs*	*Grant Share*	*Match Share*
Personnel	$	$	$
Contractual Services	$	$	$
Tuition	$105,300.00	$70,200.00	$35,100.00
Travel	$9,615.00	$	$9,615.00
Supplies & Operating	$900.00	$	$900.00
Equipment	$	$	$
Total *Per Session* Costs	$115,815.00	$70,200.00	$45,615.00
Total *Course* Costs	$115,815.00	$70,200.00	$45,615.00

NOTES:

SANS FOR518: Mac and iOS Forensic Analysis and Incident Response is a 44-hour course of instruction, offered over six (6) consecutive days. This course provides the techniques and skills necessary to take on any Mac or iOS case without hesitation. The intense hands-on forensic analysis and incident response skills taught in the course will enable analysts to broaden their capabilities and gain the confidence and knowledge to comfortably analyze any Mac or iOS device.

SECTION 4 - COST JUSTIFICATION
The cost justification section is the bridge between the project narrative and the budget detail. Describe the proposed expenditures for each course offering or topic separately. Explain the proposed expenditures (both grant and match) and why the costs are necessary. Provide sufficient detail to justify the expenditures and to support the calculations that are shown in the budget detail. If a student fee will be charged, specify the amount per student. **Refer to Page 20 of the Grant Manual**

Personnel:
There is no funding requested for the Personnel category.

Contractual Services:
There is no funding requested for the Contractual Services category.

Tuition:

Out-of-State Tuition Costs
Out-of-state tuition costs for the MSP and local and county forensic examiners are determined by the training needs on both an individual and statewide basis by the MSP Cyber Section and affiliate agencies. Since 2016, the MSP Cyber Section has acquired additional forensic examiners and investigators who require different levels of digital forensic training. Request for out-of-state tuition cost are intended to assist in providing fundamental study of computer operating systems, file systems, and various computer forensics concepts and methodologies.

Techno Security & Digital Forensics Conference
        The total for the tuition for Techno Security & Mobile Forensic World
                $995.00 each x 10 MSP, local and county forensic examiners = $9,950.00
                Grant Share = $6,633.33   Match Share = $3,316.67

IACIS MDF
        The total for the tuition for IACIS-Windows Forensic Examiners
                $1,495.00 each x 6 MSP, local and county forensic examiners = $8,970.00
                Grant Share = $5,980.00   Match Share = $2,990.00

IACIS BCFE
        The total for the tuition for IACIS - BCFE is
                $2,995.00 each x 2 MSP, local and county forensic examiners = $5,990.00
                Grant Share = $2,995.00   Match Share = $2,995.00

    TOTAL for Out-of-State Tuition = $24,910.00
      Grant Share = $15,608.33
      Match Share = $9,301.67

In-State Tuition Cost
In-state tuition cost for the MSP, local and county forensic examiners are determined by the training needs on a statewide basis for all partner and affiliate agencies. One of our top priorities has been to ensure that participating agencies and officers achieve a minimum level of proficiency in the investigation and analysis of internet technologies and devices. Advanced training or specialized training addressing regional need has been given every consideration and the following digital forensic training will provide up to 15 MSP, local and county digital forensic examiners by providing in-state training that helps minimize expenses relative to travel and per diem.

SANS FOR518: Mac and iOS Forensic Analysis and Incident Response
> The total for the tuition for 15 MSP, local and county forensic examiners per session:
>> $7,020.00 each x 15 MSP, local and county forensic examiners = $105,300.00
>> Grant Share = $70,200.00   Match Share = $35,100.00

Total Grant Share = $70,200.00   Total Match Share = $35,100.00

TOTAL for In-State Tuition = $105,300.00
> **Grant Share = $70,200.00**
> **Match Share = $35,100.00**

GRAND TOTAL FOR TUITION = $130,210.00
> **Grant Share = $85,808.33**
> **Match Share = $44,401.67**

Travel-Employee:
There is no funding request for the Travel-Employee category.

Travel-Contractor:
There is no funding request for the Travel-Contractor category.

In-State Student-Travel Cost

In-State Student-Travel cost for the MSP, local and county forensic examiner trainees are within the State's standardized travel rates as published by the Department of Technology, Management, and Budget (DTMB).

Note: Several of the MSP, local and county forensic examiner trainees will be traveling from their work site locations within upper and lower portion of the state to attend in-state training sessions.

SANS FOR518: Mac and iOS Forensic Analysis and Incident Response
In-State Travel: 6 days/5 nights per MSP, local and county forensic examiner
Lodging $85.00/night x 5 nights = $425.00
Meals $36.00/day x 6 days = $216.00
                                ($8.50-Breakfast, $8.50-Lunch, $19.00-Dinner)

The total for the Student Travel for SANS FOR518: Mac and iOS Forensic Analysis and Incident Response is:
$641.00 each x 15 MSP, local and county forensic examiners = $9,615.00
Grant Share = $0.00   Match Share = $9,615.00

TOTAL for In-State, Student-Travel = $9,615.00
    Grant Share = $0.00
    Match Share = $9,615.00

Out-State, Student-Travel Cost
Out-State, Student-Travel cost for the MSP, local and county forensic examiners are within the State's standardized travel rates as published by the DTMB.

Note: Several of the MSP, local and county forensic examiner trainees will be traveling from their work site locations within the upper and lower portion of the state to attend in-state training sessions.

Techno Security & Digital Forensics Conference
Out-State Travel: 5 days/4 nights per MSP, local and county forensic examiner

Lodging	$199.00/night x 4 nights = $796.00
Meals	$44.00/day x 5 days = $220.00
	($10.25-Breakfast, $10.25-Lunch, $23.50-Dinner)
Airfare	$500.00 per attendee

The total for the Techno Security & Digital Forensics Conference is:
$1,516.00 each x 10 MSP, local and county forensic examiners = $15,160.00
Grant Share = $5,053.33   Match Share = $10,106.67

IACIS MDF
Out-State Travel: 6 days/5 nights per MSP, local and county forensic examiner

Lodging	$114.00/night x 5 nights = $570.00
Meals	$44.00/day x 6 days = $264.00
	($10.25-Breakfast, $10.25-Lunch, $23.50-Dinner)
Airfare	$500.00 per attendee

The total for the Mobile Device Forensics (MDF) is:
$1,334.00 each x 6 MSP, local and county forensic examiners = $8,004.00
Grant Share = $2,668.00   Match Share = $5,336.00

IACIS BCFE
Out-State Travel: 14 days/13 nights per MSP, local and county forensic examiner

Lodging	$114.00/night x 13 nights = $1,482.00
Meals	$44.00/day x 14 days = $616.00
	($10.25-Breakfast, $10.25-Lunch, $23.50-Dinner)
Airfare	$500.00 per attendee

The total for the Student Travel for Basic Computer Forensic Examiner is:
$2,598.00 each x 2 MSP, local and county forensic examiners = $5,196.00
Grant Share = $2,598.00   Match Share = $2,598.00

TOTAL for Out-of-State, Student-Travel = $28,360.00
Grant Share = $10,319.33
Match Share = $18,040.67

GRAND TOTAL FOR Travel = $ 37,975.00
Grant Share = $10,319.33
Match Share = $27,655.67

Supplies and Operating:

We request funding to hold in-state training in Lansing, Michigan, at the Michigan State Police Training Academy.

SANS- Mac and iOS Forensic Analysis and Incident Response
Room rental rate is $150.00 per day ($150.00/day x 6 days = $900.00).
                    Grant Share = $0.00   Match Share = $900.00

GRAND TOTAL for the Supplies & Operating category is $900.00
Grant Share $0.00
Match Share $900.00

Prioritize the components of your application in descending order. Include the GRANT COSTS and MATCH COSTS. Single topic applications should list priorities by sessions or category expenditures. If the application contains more than one training topic, prioritize by topic. If more than one grant application is being submitted by an agency, prioritize the list of applications. The applicant's list of priorities will be followed to the highest degree possible; however, Commission priorities take precedence over a grantee's priorities.
BE SURE TO PROVIDE ACTUAL COSTS FOR EACH TOPIC.
Copy and insert this page into your application as many times as needed.
Refer to Page 21 of the Grant Manual

HIGHEST TO LOWEST PRIORITY:
The one primary vendor providing our analysis tools SANS.

SANS FOR518: Mac and iOS Forensic Analysis and Incident Response is a 44-hour course of instruction, offered over six (6) consecutive days. This course provides the techniques and skills necessary to take on any Mac or iOS case without hesitation. The intense hands-on forensic analysis and incident response skills taught in the course will enable analysts to broaden their capabilities and gain the confidence and knowledge to comfortably analyze any Mac or iOS device.

A priority request within this request is enhanced training for nine MSP digital forensic examiners and investigators. By allowing these officers and civilians added training, they will be in a better position to aid in the solvability of a variety of criminal incidents, from robbery to sexual assault. Therefore, the courses listed in this priority detail are listed in order from most essential to those of lesser importance.

HIGHEST TO LOWEST PRIORITY:

- **Techno Security & Digital Forensics Conference**
  - Tuition: Grant Share $6,633.33   Match Share $3,316.67
  - Travel: Grant Share $5,053.33   Match Share $10,106.67

- **Mac and iOS Forensic Analysis and Incident Response**
  - Tuition: Grant Share $70,200.00   Match Share $35,100.00
  - Travel: Grant Share $0.00   Match Share $9,615.00
  - Operating: Grant Share $0.00   Match Share $900.00

- **IACIS–Mobile Device Forensics (MDF)**
  - Tuition: Grant Share $5,980.00   Match Share $2,990.00
  - Travel: Grant Share $2,668.00   Match Share $5,336.00

- **IACIS–Basic Computer Forensic Examiner (BCFE)**
  - Tuition: Grant Share $2,995.00   Match Share $2,995.00
  - Travel: Grant Share $2,598.00   Match Share $2,598.00

CERTIFICATE OF CONSORTIUM MEMBERSHIP
The Certifying Official shall be the individual who administers consortium activities and has the authority to act on behalf of the consortium. Attach paperwork supporting the Consortium Membership to this document.

Identification:

1. Applicant Agency:
Michigan State Police, Intelligence Operations Division, Cyber Section, Computer Crimes Unit

2. Consortium:
Michigan Technology & Investigations and Forensic Training Consortium

Consortium:

3. Consortium Structure:
The MSP Cyber Section is the lead administrative agency for the MI-ICAC Task Force. The structure of this consortium benefits all of Michigan's 83 counties by regionally staffing personnel who collaboratively investigate technology related crimes against children. All of consortium members who receive training in Internet investigation and digital forensic examination utilize these skills to benefit their home agencies in a variety of criminal cases. Consortium members can be found at each of the MSP CCU office locations. These locations include Lansing, Livonia, Bridgeport, Coldwater, Grand Rapids, Traverse City, and Marquette. Signed Memorandums of Understanding are on file with all partner agencies and the MSP.

4. Geographic Region Served by the Consortium:
All of Michigan's 83 counties are serviced by MI-ICAC task force members who also comprise this MJTF consortium.

5. Member Agencies:
Antrim County Sheriff's Office, Clinton County Sheriff's Office, Berrien County Sheriff's Office, Ingham County Sheriff's Office, Kent County Sheriff's Office, Livingston County Sheriff's Office, Macomb County Sheriff's Office, Newaygo County Sheriff's Office, Ottawa County Sheriff's Office, Grand Traverse County Sheriff's Office, Kalamazoo County Sheriff's Office, Van Buren County Sheriff's Office, Wayne County Sheriff's Office, Eaton County Prosecutor's Office, Wayne County Prosecutor's Office, Kent County Prosecutor's Office, Detroit PD, Forsyth PD, Grand Blanc City PD, Grand Rapids PD, Holland PD, Muskegon PD, Muskegon Twp. PD, Livonia PD, Sterling Hts. PD, Northville Twp. PD, Troy PD, Kentwood PD, Fruitport PD, Wyoming PD, Bellaire PD, Lansing PD, Grand Blanc Twp. PD, Midland PD, Norton Shores PD, Saginaw Twp. PD, Westland PD, New Baltimore PD, Traverse City PD, Marquette PD, Michigan State Police, Michigan Department of Attorney General, Michigan Department of Corrections, Michigan National Guard, United States Secret Service, US Postal Inspection Service, Federal Bureau of Investigation, United States Immigration and Customs Enforcement.

6. Financial Commitment from Member Agencies:
Members agencies provide personnel to work part-time at one of the (7) MSP CCU regional office locations and pay the hourly wages, benefits, and overtime expenses for their staff

Certification:

I certify, on behalf of the consortium, the information contained in this document is complete, accurate and, in compliance with the requirements of the Michigan Commission on Law Enforcement Standards.

Printed Name of Certifying Official	Title of Certifying Official
Signature of Certifying Official	Date

Other consortium certification may be submitted as addendum files.

MICHIGAN COMMISSION ON LAW ENFORCEMENT STANDARDS
Michigan State Police, Building Forensic & Investigative Capacity in Technology
2021 Proposed Budget Detail

PERSONNEL

Salary and Fringe Benefits

Course Employee Name	Assignment	Hourly Rate	Dev. Hours	Prep. Hours	Inst. Hours	Admin. Hours	Total Salary	Fringe Rate	Fringe	Total Cost	Grant Share	Match Share
							$ -		$ -	$ -		
							$ -		$ -	$ -		
							$ -		$ -	$ -		
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TOTAL PERSONNEL										$0.00	$0.00	$0.00

MICHIGAN COMMISSION ON LAW ENFORCEMENT STANDARDS
Michigan State Police, Building Forensic & Investigative Capacity in Technology
2021 Proposed Budget Detail

CONTRACTUAL
Contractor Fees

Contractor Name	Course	Hourly Rate	Dev. Hours	Prep. Hours	Inst. Hours	Admin. Hours	Total Cost	Grant Share	Match Share
							$ -		
							$ -		
							$ -		
							$ -		
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TOTAL CONTRACTUAL							**$0.00**	**$0.00**	**$0.00**

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MICHIGAN COMMISSION ON LAW ENFORCEMENT STANDARDS
Michigan State Police, Building Forensic & Investigative Capacity in Technology
2021 Proposed Budget Detail

TUITION
Cost per Student

Training Provider	Course	Number of Students	Cost per Student	Total Cost	Grant Share	Match Share
				$ -		
International Association of Computer Investigative Specialists (IACIS)	Basic Computer Forensic Examiner (BCFE)	2	$ 2,995.00	$ 5,990.00	$ 2,995.00	$ 2,995.00
				$ -		
International Association of Computer Investigative Specialists (IACIS)	Advance: Mobile Device Forensics (MDF)	6	$ 1,495.00	$ 8,970.00	$ 5,980.00	$ 2,990.00
				$ -		
The Comexposium Group	2021 Techno Security & Digital Forensics Conference	10	$ 995.00	$ 9,950.00	$ 6,633.33	$ 3,316.67
				$ -		
SANS	FOR518: Mac and iOS Forensic Analysis and Incident Response	15	$ 7,020.00	$ 105,300.00	$ 70,200.00	$ 35,100.00
				$ -		
				$ -		
				$ -		
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				$ -		
TOTAL TUITION				**$130,210.00**	**$85,808.33**	**$44,401.67**

MICHIGAN COMMISSION ON LAW ENFORCEMENT STANDARDS
Michigan State Police, Building Forensic & Investigative Capacity in Technology
2021 Proposed Budget Detail

TRAVEL
Employee

Course / Employee Name	Miles	Rate 0.34	Mileage Total	#	Rate $85.00	Lodging Total	#	Breakfast Cost	Breakfast Total	#	Lunch Cost	Lunch Total	#	Dinner Cost	Dinner Total	Airfare/ Other	Total Cost	Grant Share	Match Share
			-			-			-			-			-		$ -		
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TOTAL EMPLOYEE TRAVEL			$0.00			$0.00			$0.00			$0.00			$0.00	$0.00	$0.00	$0.00	$0.00

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MICHIGAN COMMISSION ON LAW ENFORCEMENT STANDARDS
Michigan State Police, Building Forensic & Investigative Capacity in Technology
2021 Proposed Budget Detail

TRAVEL
Contractor

Course Contractor Name	Mileage Miles	Rate 0.34	Total	#	Lodging Rate $85.00	Total	#	Breakfast Cost	Total	#	Lunch Cost	Total	#	Dinner Cost	Total	Airfare/ Other	Total Cost	Grant Share	Match Share
			-			-			-			-			-		$ -		
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TOTAL CONTRACTOR TRAVEL			$0.00			$0.00			$0.00			$0.00			$0.00	$0.00	$0.00	$0.00	$0.00

MICHIGAN COMMISSION ON LAW ENFORCEMENT STANDARDS
Michigan State Police, Building Forensic & Investigative Capacity in Technology
2021 Proposed Budget Detail

TRAVEL
Trainee

Course/Date Trainee Totals	# Lodging	# Nights	Rate 85.00	Lodging Total	# for B'fast	# of Days	Cost	Breakfast Total	# for Lunch	# of Days	Cost	Lunch Total	# for Dinner	# of Days	Cost	Dinner Total	Airfare/ Other	Total Cost	Grant Share	Match Share
				$ -				$ -				$ -				$ -		$ -		
IACIS - Basic Computer Forensic Examiner (BCFE)	2	13	$ 114.00	$ 2,964.00	2	14	$ 10.25	$ 287.00	2	14	$ 10.25	$ 287.00	2	14	$ 23.50	$ 658.00	$ 1,000.00	$ 5,196.00	$ 2,598.00	$ 2,598.00
				$ -				$ -				$ -				$ -		$ -		
IACIS Advance: Mobile Device Forensics (MDF)	6	5	$ 114.00	$ 3,420.00	6	6	$ 10.25	$ 369.00	6	6	$ 10.25	$ 369.00	6	6	$ 23.50	$ 846.00	$ 3,000.00	$ 8,004.00	$ 2,668.00	$ 5,336.00
				$ -				$ -				$ -				$ -		$ -		
2021 Techno Security & Digital Forensics Conference	10	4	$ 199.00	$ 7,960.00	10	5	$ 10.25	$ 512.50	10	5	$ 10.25	$ 512.50	10	5	$ 23.50	$ 1,175.00	$ 5,000.00	$ 15,160.00	$ 5,053.33	$ 10,106.67
				$ -				$ -				$ -				$ -		$ -		
SANS FOR518: Mac and iOS Forensic Analysis and Incident Response	15	5	$ 85.00	$ 6,375.00	15	6	$ 8.50	$ 765.00	15	6	$ 8.50	$ 765.00	15	6	$ 19.00	$ 1,710.00	$ -	$ 9,615.00		$ 9,615.00
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TOTAL TRAINEE TRAVEL				$20,719.00				$1,933.50				$1,933.50				$4,389.00		$37,975.00	$10,319.33	$27,655.67

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MICHIGAN COMMISSION ON LAW ENFORCEMENT STANDARDS
Michigan State Police, Building Forensic & Investigative Capacity in Technology
2021 Proposed Budget Detail

SUPPLIES AND OPERATING

Course	Description	Quantity	Unit Price	Total Cost	Grant Share	Match Share
SANS FOR518: Mac and iOS Forensic Analysis and Incident Response	MSP Academy Room Rental	6	$ 150.00	$ 900.00		$ 900.00
				$ -		
				$ -		
				$ -		
				$ -		
				$ -		
				$ -		
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| TOTAL SUPPLIES AND OPERATING | | | | $900.00 | $0.00 | $900.00 |

MICHIGAN COMMISSION ON LAW ENFORCEMENT STANDARDS
Michigan State Police, Building Forensic & Investigative Capacity in Technology
2021 Proposed Budget Detail

EQUIPMENT

Course	Description	Quantity	Unit Price	Total Cost	Grant Share	Match Share
				-		
				-		
				-		
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TOTAL EQUIPMENT				$0.00	$0.00	$0.00

MICHIGAN COMMISSION ON LAW ENFORCEMENT STANDARDS

Michigan State Police, Building Forensic & Investigative Capacity in Technology

2021 Proposed Budget Detail

Personnel	*Total Costs*	*Grant Share*	*Match Share*	Comments:
	$ -	$ -	$ -	

Contractual	*Total Costs*	*Grant Share*	*Match Share*	Comments:
	$ -	$ -	$ -	

Tuition	*Total Costs*	*Grant Share*	*Match Share*	Comments:
	$ 130,210.00	$ 85,808.33	$ 44,401.67	

Travel-Employee	*Total Costs*	*Grant Share*	*Match Share*	Comments:
	$ -	$ -	$ -	

Travel-Contractor	*Total Costs*	*Grant Share*	*Match Share*	Comments:
	$ -	$ -	$ -	

Travel-Trainee	*Total Costs*	*Grant Share*	*Match Share*	Comments:
	$ 37,975.00	$ 10,319.33	$ 27,655.67	

Supplies & Operating	*Total Costs*	*Grant Share*	*Match Share*	Comments:
	$ 900.00	$ -	$ 900.00	

Equipment	*Total Costs*	*Grant Share*	*Match Share*	Comments:
	$ -	$ -	$ -	

GRANT TOTALS	*Total Costs*	*Grant Share*	*Match Share*	Comments:
	$ 169,085.00	$ 96,127.66	$ 72,957.34	

Percentage of Total Costs	*Grant Share*	*Match Share*	Comments:
	56.9%	43.1%	