USEPA Office of Enforcement and Compliance

State Environmental Enforcement Training Grant

Summary Information

A.) **Environmental Crimes Program Training (Project ENCRIPT)**

B.) Sam Houston State University P.O. Box 2417 Huntsville, TX 77341-2417

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C.) Funding Requested: $893,483

D.) Total Project Cost: $1,014,425

E.) Project Period: September 1, 2012 - August 31, 2015

F.) DUNS number: 074179896

Project Summary

Introduction

Environmental crime is much more diverse, costly, and under enforced than most people realize. Its impacts are also difficult to assess in many respects, but some estimates suggest that these crimes cost $20-40 billion annually due to cleanup responsibilities, lost revenue and taxes, and procedural costs from prosecutions (Brack, 2004). Economic adversity across the nation and the increasing value of raw materials are just two of the instigating factors in emerging and alarming trends. In addition, perpetrators are becoming more diligent in creating ways to generate profit, often at the expense of the environment.

To deal with such illegal and harmful activity, the responsibility to detect offenders and embark upon complex enquiries falls to a relatively small group of individuals within the environmental law enforcement network. Unfortunately, due to budget cuts there is also a serious shortage of environmental crimes training opportunities for investigators. However, even before these cuts, there has always been a serious shortage of economical, updated, and available environmental enforcement training courses. Another limiting factor in the education of more environmental enforcement professionals is the fact that existing courses are primarily classroom based, relatively expensive, rarely offered, and have very limited class sizes. While these classroom courses do offer networking opportunities between participants, they are expensive and because of the limited number of classes and small class sizes do not train enough people on a national basis. Fortunately, with recent advancements in long distance education, including the ability of students to interact within a class as teams, a majority of environmental enforcement personnel across the nation can now be accommodated to exchange information, problem solve and learn best practices using specific web platforms.

The proposed project team members and associated organizations combine the two most critical areas of expertise and experience required to successfully implement the proposed ENCRIPT program. These are: 1) a leading national level law enforcement educational institution, Sam Houston State University (SHSU) and its College of Criminal Justice that successfully and operationally offers web site services and associated web based E-Learning courses and 2) the largest and most experienced (20 years) environmental enforcement program in the country through the Houston Police Department's Major Offenders Division, Environmental Investigations Unit (EIU) in combination with the Harris County District Attorney's Office. Because of SHSU's proximity and close relationship with HPD and the Harris County District Attorney's Office and their unique 20 year involvement with environmental policing, lessons learned, best practices, teaching expertise at the local, state and national levels (i.e., actual FLETC environmental crimes course instructors), their experiences will be of great value to the discipline specific development and implementation of a complete and successful environmental enforcement training program.

Specific Actions

To strengthen city, county and state governments' ability to address environmental and public health threats through training of environmental enforcement personnel across the nation, SHSU

with its environmental law enforcement partner organizations, is proposing to develop and offer a comprehensive State Environmental Enforcement Training (SEET) Program. Based on the SHSU team's national level credibility; classroom and web based training experience; actual long-term on the ground environmental law enforcement experience; and a sound understanding of both environmental crimes and associated law enforcement issues, the proposed ENCRIPT training program will develop and deliver modules for all sectors of the environmental policing community at the basic and intermediate levels. The specific intent of this program is to a) build a comprehensive training program that includes advanced, tested and effective web-based E-Learning, hands-on field experiences, and content experts' classroom presentations, b) expand the educational delivery system capability of all the states to operate their environmental compliance and enforcement programs, and c) to create a virtual community of environmental enforcement practitioners that can assist one another, share information, develop ideas and become an overall resource to the EPA and other agencies for long term sustainability of public policies. The target audience will be local, state and tribal inspectors, case development specialists, attorneys, civil and criminal investigators, and technical experts engaged in environmental enforcement. The program will be offered with broad geographic coverage because we will leverage an existing network of environmental law enforcement organizations throughout the United States. Furthermore, the facilitation of a comprehensive educational model, such as that offered by ENCRIPT, will allow many more environmental law enforcement personnel across the country to access the training. As current enforcement personnel retire, this approach would offer a younger workforce vital access to information.

The first work product that will be developed in the year one of the project will be a complete long distance/web-based Basic Environmental Crime Training long distance education curriculum that will be based on the initial assessment of training needs. This assessment will be derived by a proven two tier approach. The first tier is for the ENCRIPT team to review what is currently being offered across the nation and cluster topics that could be identified as core principle and/or modules. This phase of the project will include the immediate acquisition, review and integration of all levels of existing current, formally approved, professional, environmental enforcement training materials. Some examples of these materials include:

- Basic Environmental Crimes Training(3 days) – solid waste focused and offered by the Texas Council on Environmental Quality (TCEQ only presently offers this course once or twice a year)
- Intermediate Environmental Crimes Course (4 days) – solid waste and water pollution focused and offered by the Southern Environmental Enforcement Network (SEEN; courses were suspended or reduced in recent years due to budget cuts), and
- Advanced Environmental Crimes Course (10 days) – hands-on water pollution and hazardous waste focused and offered by the EPA's Criminal Investigation Division (CID) at the Federal Law Enforcement Training Center (FLETC), GA. This class is restricted to 26 participants. Only one class was offered in 2012 and no courses were offered for the previous five (5) years due to budget cuts.

The second tier will be to convene experienced user oriented focus groups from around the country to assess existing training materials and to establish any additional needs of the environmental enforcement community. This strategy will assess overall training needs at all levels; allow for the design, development, delivery, and evaluation of training programs; and provide exceptional learning opportunities for environmental enforcement personnel.

The primary initial user groups will represent the four (4) Regional Environmental Enforcement Associations with are the; 1) Midwest Environmental Enforcement Association (MEEA), 2) Northeast Environmental Enforcement Project (NEEP), 3) Southern Environmental Enforcement Network (SEEN), and 4) Western State Project. These Regional Environmental Enforcement Associations are alliances of regulatory and law enforcement agencies from 45 states and 4 Canadian provinces, and several municipal, regional, and federal agencies. Members include state environmental regulatory agencies, attorneys general offices, law enforcement agencies, and local prosecutor organizations. The Regional Associations promote the effective enforcement of state and local environmental statutes and regulations, with a strong emphasis of criminal enforcement. These Associations also provide state and local environmental enforcement professionals with a forum for training and networking, and with formal mechanisms for the exchange of information.

E-Learning techniques will include webinars, virtual, interactive classrooms, and web based courses that will offer quizzes, case studies and testing to increase the knowledge, skills, and abilities of participating environmental enforcement personnel. Experienced, long-term environmental enforcement personnel will actively participate in all aspects of the content building, oversight, and classroom teaching phases of the program. The benefit of this approach will be to minimize strained constituent training budgets, especially for travelling and accommodation; minimize "away from the office" time; and expose the target audience to the technical and behavioral competencies they need to be effective in their part of the environmental "policing" operation.

The second work product in year one will be a face-to-face classroom-based Advanced Environmental Crimes training curriculum to complement the core principles of the Basic online education curriculum and that will help meet some of the more complex and/or advanced existing needs of constituents. The project team will offer the training at various locations (i.e. the four Regional Environmental Enforcement Associations) around the country. This regional approach will: 1) allow the project team to engage with key institutions from the existing Regional Environmental Enforcement Associations and related networks across the country and 2) share project resources with the Regional Environmental Enforcement Associations by resourcing regional trainers and providing travel funds for regional stakeholders to participate in classroom based courses in their home area. Four (4) Advanced classes will be offered for each of the three (3) years of the project.

An example of a new Advanced class component option will be the application of geospatial technologies for environmental enforcement. Law enforcement personnel are beginning to acquire and utilize a host of geospatial technologies. These range from drones to support SWAT teams, to mapping traffic accidents, and environmental enforcement, to laser scanners to create 3D modeling for crime scenes, to ground penetrating radar to locate clandestine graves and pipes, to geographic information systems (GIS) to map and analyze crime patterns, to even using Google Earth to quickly and easily look over and assess a site to be investigated.

SHSU's project team members have been working closely with HPD's Major Offenders Division's EIU in combination with the Harris County District Attorney's Office. In one case, GIS was applied to map illegal hazardous dumping sites that: 1) actually helped to catch the

suspect of the largest environmental case in the 20 year history of the EIU and 2) will likely be a helpful visual asset to explain the suspect's activities. The task force in this case included such organizations as SHSU/CJC, City of Houston Health Department, Bureau of Consumer Health and Pollution Control and Prevention, Texas Commission on Environmental Quality (TCEQ), Harris County Pollution Control Services Department (HCPCSD), and the City of Houston's environmental contractor (A&B Laboratory Services). SHSU staff next asked for a copy of the EIU 20 year data base, approximately 35,000 incidents or locations, from which SHSU has identified the top ten (10) most cited locations and HPD deployed cameras to continuously monitor each site. Analyses of environmental crime in and around the nation's fourth largest city will include such aspects as: 1) a comparison with more traditional criminal activities and associated enforcement practices and 2) trends in environmental crimes (i.e., against trends in the economy, against trends in the values of raw materials [e.g., metals], and by site/neighborhood characteristics). These and other actual environmental policing case applications will be included in these new geospatial technologies associated class materials. LEMIT staff also provides training associated with hazardous materials to law enforcement personnel and has an existing Cooperative Agreement with FLETC.

In order to ensure that project developed course offerings are compliant with EPA Order 3500.1 A 1, an early meeting will be sought with members of the National Environmental Training Institute (NETI) in the Office of Compliance (OC) in the Environmental Protection Agency's Office of Enforcement and Compliance Assurance (OECA).

A third product for the first year will be a formal and sustainable Environmental Crimes and Enforcement web site that will serve the U.S. and share class descriptions, information, investigative procedures, trends, legislation, technologies, and other relevant and useful information to the greater user community. It will also offer on line blogs and other networking features that may facilitate the enforcement community to share evidence-based best practices. The team is planning to offer the environmental enforcement training beyond the end of this three (3) year period. This training will also be available to law enforcement participants from across the state, the nation, and from around the world.

Perhaps unique to the ENCRIPT's team is their long term vision for Environmental Crimes Training. The HPD has very recently approved and is planning a $3.5 Million Environmental Crimes Training Center (ECTC) to be built at the Houston Police Department's Police Academy. The project is currently awaiting funding and the SHSU led team is assisting them in this endeavor. It will duplicate and expand upon the environmental crimes training program at the EPA's CID FLETC in Georgia. The objective of the new facility is to offer quality hands-on training at the local, state, and national level.

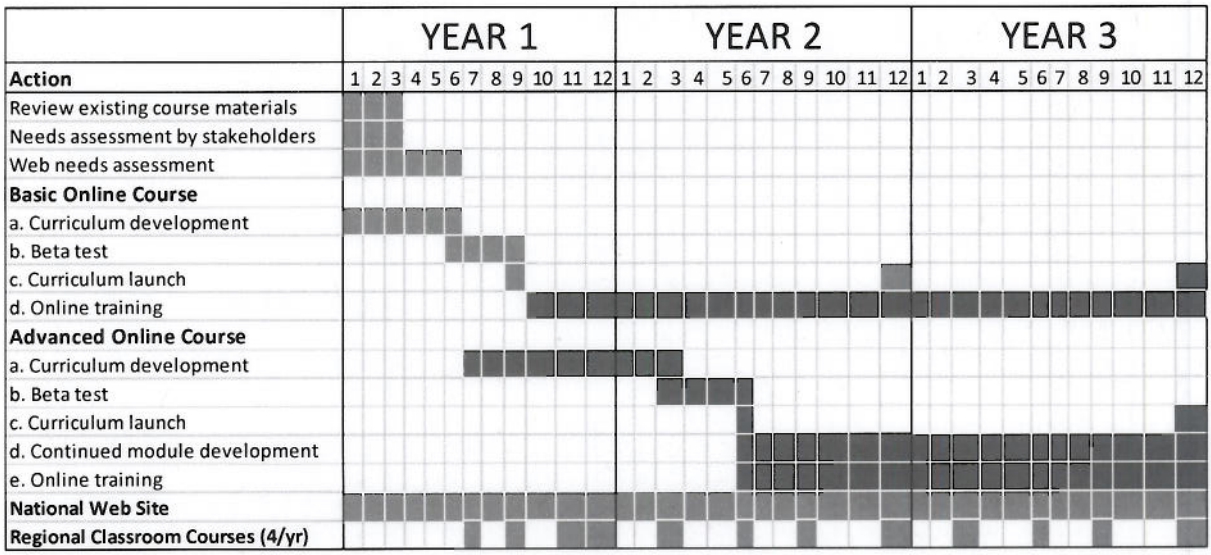
The following hands-on classes/courses are examples of those that are being planned for presentation at the new state, regional and national HPD facility:

- Advanced Environmental Crimes
- Criminal and Civil Sampling
- Confined Space Entry and Certification
- Hazwopper Training and Certification
- HAZMAT Technician Certification

- Evidence collection
- Computer Forensics
- Scene Safety
- Technical Rescue, and
- Regulatory Inspection Training and Certification.

In summary, the proposed on-line Basic and Advanced classroom/hands-on and on-line training and the Environmental Enforcement web site in combination with the hands-on courses at the new HPD facility, as mentioned above, will provide the most comprehensive capability to train environmental enforcement personnel in the nation.

Timeline



Participant Benefits

Whether it is classroom-based or online learning, ENCRIPT training maximizes student participation in its delivery and focuses on full comprehension by the students. This is achieved in a number of ways. In the classroom, the traditional lecture format is being used less frequently. In its place, pre-reading core material by the students is followed by interactive sessions in the classroom, group discussions, presentations and problem-solving sessions. Similarly, on-line learning is quite writing intensive, with students being placed in learning groups, and assessed over threaded discussions. Each course, both online and face-to-face will have a pre-test and post-test evaluation component. We understand through our long experience with law enforcement agencies, that some agencies have greater capacity than others to send officers for training. Therefore, we are dedicating certain funds in the budget for travel scholarships to training classes for those individuals from agencies with very limited financial capacity. We are very cognizant of this dilemma, but nevertheless realize that the more money that is spent on training support such as travel and accommodation, the less money there will be to offer more courses. This is why, when reviewing much of what one might describe as basic

and advanced training, we see great opportunities to make this available through quality on-line programs, at no cost either to the student or their agency.

The program team believes that it is important to review a number of training outcomes both in quantitative and qualitative measurements. It is equally important to disseminate this information to the EPA and its regional organizations. As part of the web-site, EPA training graduates, as well as agencies and organizations that send their students to the training, can review course materials, thus enabling agency personnel to see what has been disseminated to their trained students, and therefore make judgments about the quality and quantity of the training.

Organizational Capacity

SHSU is recognized nationally and internationally for its Criminal Justice expertise. Within the College of Criminal Justice, the Law Enforcement Management Institute of Texas (LEMIT) is mandated by the state of Texas to conduct training for law enforcement personnel across the state. Its programs are accredited by the Texas Commission on Law Enforcement Standards and Training (TCLEOSE). LEMIT's 30,000 sq. ft. state-of-the-art facility has been used to deliver over 130,000 hours of training per year and includes technology equipped classrooms that can deliver courses remotely to external locations, including international law enforcement centers. The International Policing Program at LEMIT delivers professional development to foreign police officers and conversely to senior American police officers who are sent there before thematic professional visits overseas .The Incident Command Simulation Training Center (INCOSIT) is a simulation based high-technology facility that offers specialized crisis management training to stakeholders from various administrative units at tribal, local, state and national levels. These organizations can carry out response training for emergencies and many institutions have used this training to develop processes that have been adopted for an emergency response. World class training opportunities for policing professionals bring different disciplines together for multi-agency training in diverse areas such as critical incident management, bio-chemical incidents, and public information officer training.

Adjacent to LEMIT is a Criminal Justice Center hotel, which has booked 15,000 nights per year for all training participants. A full service catering facility in LEMIT completes the stand alone model for the training facility. A full size court room where trials' training can be held is also part of the facility.

In addition, in the past three years, SHSU has invested several million dollars to create a stand - alone unit specifically to create and deliver on line learning. Currently the university offers 19 degree programs through the Distance Education Learning Technology Academics (DELTA). Our associated technology experts include experienced content developers, graphic designers and web site developers that will ensure the high standards required by the EPA. As an example of its level of diverse expertise, presently, LEMIT is presently working with the Texas Education Agency (TEA) to deliver professional development training to high school science teachers. This content training is to promote forensic science education to high school students so that future workforce needs in forensic science will be met.

Qualifications of Key Personnel - one page resumes in supplementary materials

- **Dr. David Webb** is the Associate Executive Director of LEMIT and will be the Principal Investigator (PI) on the project. Dr. Webb will lead the project team with such tasks as: overall development and review of training materials; development, editing, integration and updating of training materials with respect to advanced web/E-Learning and classroom based training methods; course evaluations; product effectiveness assessments; recruiting participants; and will also participate in the classroom as an instructor.
- **Dr. Jack Hill** is the Director of Innovative Collaborative Programs in the Office of Research and Sponsored Programs (ORSP) at SHSU. He is the University's principal point of contact with the Major Offenders Division, Environmental Investigations Unit in conjunction with the Harris County District Attorney's Office. He will assist the project team with such tasks as: overall review of training materials; editing, integration and updating of training materials with respect to new monitoring and geospatial analysis technologies; recruiting participants; locating and attracting sources of sustainable funding for the overall training program; and will also participate in the classroom as an instructor.
- **Roger Haseman** is Chief of the Environmental Crimes Division in the Harris County District Attorney's Office. He is arguably, the most experienced and successful environmental crimes prosecutor in the entire state of Texas. He will assist the project team with such tasks as: overall development and review of training materials; editing, integration and updating of training materials with respect to environmental regulations, litigation support, negotiations, investigations; locating and attracting sources of sustainable funding for the overall training program; and will also participate in the classroom as an instructor.
- **Stephen Dicker** is a Senior Officer with over 10 years of experience in the HPD's Major Offenders Division, Environmental Investigations Unit. He has been an instructor on numerous occasions in the environmental crimes training courses offered through the EPA's Criminal Investigation Division (CID) at the Federal Law Enforcement Training Center (FLETC), GA. Office Dicker will assist the project team with such tasks as: overall development and review of training materials; networking with Regional Environmental Law Enforcement Associations, TCEQ, EPA/FLETC, and other stakeholders; editing, integration and updating of training materials with respect to environmental regulations, evidence collection, computer forensics, scene safety, regulatory inspections/investigations; training methods; and will also participate in the classroom as an instructor.
- **Michael Walsh** is a Sergeant with approximately 20 years of experience in the Houston Police Department's Major Offenders Division, Environmental Investigations Unit (EIU). He has personally trained numerous environmental enforcement personnel and has also successfully investigated 1,000s of environmental cases. Sergeant Walsh will assist the project team with such tasks as: overall development and review of training materials; development, editing, integration, and updating of training materials with respect to evidence collection, computer forensics, scene safety, regulatory inspections/investigations; and will also participate in the classroom as an instructor.
- **Rachelle Smith** has over 10 years of experience as the Operations Manager of the Analytical Laboratory at the Texas Research Institute for Environmental Studies (TRIES) at SHSU. The Analytical Laboratory provides quality analytical testing to the federal, state, commercial, industrial, residential, and academic communities. A variety of testing services are available for ground and surface water, drinking water, wastewater, hazardous waste, soil/sludge, hay,

forage and leaf tissue. Services provided through the Analytical Laboratory include consulting, development, sample collection, and waste characterization. Ms. Smith will assist the project team with such tasks as: overall development and review of training materials; development, editing, integration, and updating of training materials with respect to sampling methodologies and investigations; and will also participate in the classroom as an instructor.

- **David Hoffpauir** is a Programmer Analyst/GIS-Database Specialist in the Center for Criminal Justice at SHSU. He also participates in all aspects of the Incident Command Simulation Training (INCOSIT) Facility, from preparation of training materials and developing incident simulations to being an instructor in the classroom. Mr. Hoffpauir will assist the project team with such tasks as: overall review and preparation of training materials; editing, integration and updating of training materials with respect to new monitoring and geospatial analysis technologies, web/E-Learning and classroom based training methods; data base management; and will also participate in the classroom as an instructor

Cost Sharing

The entire project team, including HPD, HCDA's Office, and associate state regulatory agencies, envisions sustaining the web site and training after the initial three year project period has ended. It is unknown at this time what future costs associated with this will be. In addition, SHSU is committing a cost share of approximately $120,942 for the team's staff time that will be allotted to make the project successful.

Budget

	Year 1	Year 2	Year 3	Total
Personnel	106,716.00	109,317.00	111,997.00	$328,030.00
Fringe Benefits	31,583.00	32,415.00	33,273.00	$97,271.00
Travel	20,718.00	20,718.00	20,718.00	$62,154.00
Equipment	-			
Supplies	4,000.00	4,000.00	1,000.00	$9,000.00
Other				
Consultants	61,000.00	61,000.00	61,000.00	$183,000.00
Total Direct Charges	224,017.00	227,450.00	227,988.00	$679,455.00
Indirect Charges	70,565.00	71,647.00	71,816.00	$214,028.00
Total	**$294,582.00**	**$299,097.00**	**$299,804.00**	**$893,483.00**

Environmental Results-Outcomes, Outputs and Performance

Number of Participants

The ENCRIPT team believes that the prime delivery method for training will be through on line distance learning. In order to determine the possible number of participants for the training, we calculated the number of environmental enforcement officers for each of the state agencies in

Texas responsible for environmental enforcement :Texas Commission on Environmental Quality(TCEQ) has seven officers; Texas Environmental Law Enforcement Association (TELEA) has approximately 150 members; There are approximately 700 officers of non-sworn Designated Representatives (DRs);And an unknown number of Registered Sanitarians (RSs). In Texas alone, therefore there may be up to 1,000 candidates for the training from a population base of 25,000,000. By extrapolating this number to the country, we could use the yardstick of one officer per 25,000 residents, therefore a potential training student population of at least 12,000 individuals.

Activity	Outcome	Output	Performance measure
Online training to bring professionals up to a minimum standard - Basic Course	Improved knowledge, skills, abilities of all candidates needing training	100% of untrained State environmental enforcement professionals trained on-line within the 3 year span of the project	Improvement in the quality of state's capacity to correct Federal and state environmental violations. Unit cost per officer trained reduced from previous three years
Online training to develop professionals - Intermediate Course	Improved knowledge, skills, abilities of all candidates needing training	100% of untrained State environmental enforcement professionals trained online within three year span of the project	Improvement in the quality of state's capacity to correct Federal and state environmental violations. Unit cost per officer trained reduced from previous three years
Training courses in classroom/field based locations	Improved knowledge, skills, abilities of all candidates needing training	A minimum of 60 days of classroom/field based training in classes of 30-900 officers trained	Improvement in the quality of state's capacity to correct Federal and state environmental violations. Unit cost per officer trained reduced from previous three years
Collaboration with Regional Environmental Enforcement trainers	Distributed and locally delivered training	More even distribution of training opportunities	Number of persons trained over a three year time frame

Programmatic Capability and Past Performance

SHSU currently has $25Million in sponsored awards funded by federal, state, private and local institutions. As a state institution of higher education we are mandated to follow all Federal and State laws regarding sponsored programs. This includes following agency rules regarding reporting and accounting procedures. LEMIT provides training for hundreds of local and state agencies and therefore is well-versed in managing reporting requirements.

Voluntary cost share/match and leveraged funds

	Year One	Year Two	Year Three
Personnel			
(1)Hill (10% of effort)	8,400	8,652	8,912
Fringe (32%)	2,688	2,769	2,852
(2)Smith (20% of effort)	11,045	11,376	11,717
Fringe (32%)	3,534	3,640	3,750
(3)Webb (10% of effort)	10,198	10,504	10,819
Fringe (32%)	3,263	3,361	3,462
TOTAL	39,128	40,302	41,512
3 year TOTAL	120,942		

Budget Narrative *(Amounts have been rounded to the nearest whole dollar)*

Overview
A total of $893,483 in federal funding is requested over a three year period; we are requesting a year one budget of $294,582, a second year budget of $299,097 and a third year budget of $299,804. The expectation is that this budget will adequately fund the development of an excellent training program. The majority of the training will be online to take advantage of fiscal advantages, as well as the ability to reach a wider audience without much of the typical associated costs. As more programs are developed online, more of the funds will be applied to advanced classroom/field based coursework and most online programs can be operated with less expensive support and maintenance.

Sam Houston State University (SHSU) is offering to provide additional matching funds in the amount of $120,942, over the three-year period of the project, through personnel contributions to the project. This amount is in addition to the costs requested in this budget justification,

Personnel
Salaries include faculty and staff from Sam Houston State University's (SHSU) Criminal Justice Center, the Texas Research Institute for Environmental Studies (TRIES) and the SHSU Office of Research and Sponsored Programs. All personnel have the requisite skills for their assigned roles and present a very strong team.

Salary costs requested for reimbursement over the three year project total $328,030. Cost matching, in the amount of $120,942 is being offered by SHSU in additional personnel contributions to the project. This will reduce the amount of funds requested through federal reimbursements. The principal investigator's time, the assistant principal investigators time, and training materials specialist's time are not being directly charged to the grant. Two full time staff members, a project manager and his assistant have been assigned to the project, along with a part-time (20 hrs/week) graduate assistant.

Fringe Benefits
The sum of $97,271.00 for the three year period of the project includes FICA (6.2%), Medicare (1.45%), TX State Retirement Match (6.4%), Optional Retirement Match (8.5%) and Insurance (9.45%), a total of 32%. Student assistant fringe benefits are calculated at 7.65% (FICA @ 6.2% and Medicare @ 1.45%) + $192/month for insurance. *(These rates are estimates; only actual costs are billed for reimbursement)*

Travel
This item includes all airfares for project team leaders' site visit. Flights from Houston to Washington and 4 Regional Centers are calculated at $600 per trip. Lodging and IE are based on published federal rates of $202 and $71 per day for Washington, DC, and a $200 and $71 for Regional visits. Mileage to the airport is calculated at $0.55/mile. Total travel costs associated with the project are $62,154 for the three year period. *(All travel reimbursement requests will be made at allowable federal rates or actual costs, whichever is lower.)*

Equipment - no expenditures

Supplies and Materials
We include the provision of all course and training materials under this sub-heading. Besides the provision of physical manuals, we will provide participants with electronic media for those officers with computers. The materials have been estimated at $9000 for the three year period. Our experience has been that the provision of downloadable materials online and the provision of loaded USB's is a much more cost effective delivery method.

Other - no expenditures

Consultants/Contracted services
During the period of the contract we will require the services of subject matter experts to assist in the delivery of class and field based training. Sixty days training has been projected at a consultant rate of $800 per day, a total of $48,000. Additionally, a minimum of 45 hours of on-line training material will be created by technical writer and design consultants. To calculate this we have used a much reduced rate of $3000 per hour of completed course material, a total of $135,000 for the three year period.

Construction - no expenditures

Total Direct Costs (Requested federal amount)
The total direct costs for the three year program, including Salaries and Fringes provided as match, total $800,397. Total Direct Costs requested in federal funds total $679,456.

Indirect Charges
SHSU's federally negotiated IDC rate of 31.5% of Modified Total Direct Costs (MTDC), resulting in a three-year total of $214,029.

Total Federal Amount Requested: $893,485