

fsu PANAMA CITY



Underwater Crime Scene Investigation

SCHOOL OF CRIMINOLOGY & CRIMINAL JUSTICE



The Need for Curriculum, Standards, and Training for ROVs in PSD and Port Security

Lessons from an Evaluation Experiment

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- **Introduction**
- **Test Overview**
- **Lessons Learned**
- **Recommendations**



Introduction





TEST OBJECTIVE

The purpose of this study was to evaluate the DIDSON-DH in terms of the current techniques available for conducting underwater searches and port security functions, and determine which situations for which it was best suited.



TEST DESIGN

Test Overview

The design incorporated three phases:

- Phase One – Training & Protocol Development
- Phase Two – Comparative Testing & Evaluation
- Phase Three – Real-world Deployments



PHASE TWO

Test Parameters

- Test Operators
- Test Items
- Test Targets





TEST OPERATORS

- FBI Underwater Search and Evidence Recovery Team (USERT) – Long Beach
- NYPD Scuba Team
- Seattle Harbor Patrol Dive Team
- Jacksonville Sheriff's Office Dive Team





TEST ITEMS

The design incorporated four techniques:

- Traditional Hand Searches
- Side Scan Sonar Searches
- ROV Searches
- Handheld Sonar Searches



VIDEORAY ROV

The test utilized a VR Pro III GTO





TEST EXECUTION

The first week of Phase Two testing consisted of operator training





TEST EXECUTION

The second week of Phase Two testing consisted of SAR operations to gather test data





TEST RESULTS





PRIMARY OBSERVATIONS

Lessons Learned

- Learning Curves
- Comfort through Familiarity
- Innovation



LEARNING CURVES

- Differential Aptitudes
- Differential Interests





COMFORT & FAMILIARITY

- Learning Environment
- Confidence Building
- Experience
- Team Learning





SPACE TO INNOVATE

- Part of developing confidence





SUGGESTED APPLICATIONS

- Universal Standards
- Objective Training Criteria
- Group Learning
- Principle of FITT

Recommend



Universal Standards

- Baseline Knowledge
- Minimum Piloting Skills
- Common Technical Applications



OBJECTIVE TRAINING CRITERIA

- Based on universal standards, but specific to ROV being used
- Incremental – moves from the simple to the more sophisticated
 - Assembly, surface piloting, hovering, underwater maneuvering, & so forth
- Most Important- it is shared with trainee



GROUP LEARNING

- Not just teaching skills – instilling confidence





FITT

- Frequency
- Intensity
- Time
- Technique



