RVTEC TRAINING VIDEOS

A Reflection on their Role in a Marine Technician’s Life

Summary

promotes the scientific productivity of research programs that make use of research vessels and oceanographic facilities and fosters activities that enhance technical support for sea-going scientific programs.

- RVTEC's Mission
  - *How do training videos fit in?*
    - Picture is worth 1000 words
      - *Can show more **technical nuances** of a system than the written-word manual does (depending on the manual)*
      - *Easy way to document lots of information with little effort*
    - Everyone in the **coming generations** speak in the language of videos (whether we like it or not)
      - *Lots of valuable videos already exist on various phones, accounts and ship servers across the fleet, right now. But they're not organized or available to the entire RVTEC community. (yet)*
    - High Turnover means constant training
      - *As we all come from a variety of backgrounds, videos are **effective** at providing a consistent starting point for in-person training sessions, internships & jr tech mentorships*
      - ***Efficient** way to document institutional knowledge*
    - **Pre-Cruise Planning** can be enhanced with videos of operations
      - *Can be linked as a resource on MFP*
      - *Visuals help guide conversation in Pre-Cruise Planning Meetings*

The Value of Production Value

- Low/Medium Production Value Example
  - *Hands-on Tutorials*
    - Cell Phone Videos (MISO MC800 Example)
  - *Conferences/Meetings*
    - Zoom Recordings (Appendix A/B Mtg in Jan)

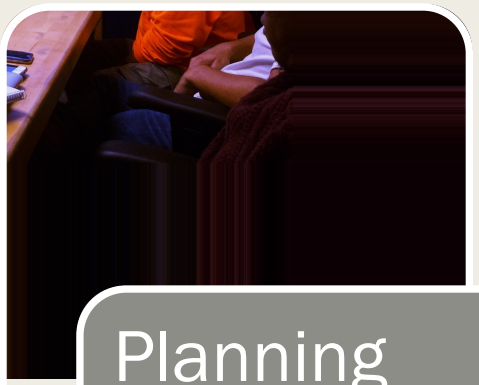
The Value of Production Value

- High Production Value Example
  - *Industry*
    - Manufacturers (Seabird University)
  - *UNOLS*
    - Wire Pool Videos (Break Test)

The Value of Production Value

- The Role Production Value Plays in Training
  - *Editing*
    - Makes for shorter training time & watchability (Example: Concise Appendix A YouTube Videos)
  - *Audio/Image Quality*
    - Nothing important is blurry or hard to hear. (Example: High Res Cerro-Bend Termination Tutorial)
  - *Planning*
    - Ensures quality control of subject matter (Example: Low Res, but well planned .322 splicing tutorial)
    - Set aside time & do it just for the camera instead of trying to film something as it is happening. The latter is possible, but you would need a skilled videographer who already understands the operation in order to produce a great product.
  - *(Doing any of these three things makes a big difference)*

Creating High Quality Videos Involves:



Planning

- Define Audience
- Write Outline

Shooting

- Dedicate Time & Space
- Don’t neglect audio

Editing

- Make as short as possible
- Use Voiceover

Tip: For longer tutorials, using voiceover instead of live audio, allows you to edit it down to a shorter video without loosing important verbiage

Recommended Training Videography Gear

Budget Kit

- Low Production Value Gear
  - *iPhone or GoPro for Video*
  - *iPhone recording via Lavalier Microphone for Audio*

Good audio is often overlooked,
Leaving viewers confused
When they can't hear what is happening.
Can be very poor on just a
Smart phone.

Serious Kit

- High Production Value Gear
  - *DSLR for video*
  - *Wireless Lavalier Microphone*
  - *Discrete Audio Recorder w/ High Quality Pre-Amp for Audio*

The effort to make high quality videos
Only makes sense if the video
Will be watched repeatedly
And the procedure doesn't change

What Currently Exists

- Purpose-Made RVTEC Videos posted on YouTube
  - *2018*
    - RVTEC Conference @WHOI
      - *Various Speakers*
  - *2023*
    - MARSSAM
      - *Dredge Technician Training Series*
        - Termination Tutorials
        - Weak Link Tutorials
        - Deck Operations
        - Big Picture Discussions
  - *2024*
    - EAST COAST WIRE POOL
      - *Safe Working Loads*
        - Break Test
        - Appendix A Overview
      - *Wire Termination*
        - Cerro-Bend (Lab-Grade)
    - MARSSAM
      - *Dredge Scientist Training Series*
        - Mapping for a Dredge
        - Processing Rock Samples

Future Direction

- Discussion: Future Directions
  - *Are Training Videos Necessarily Good?*
    - Does it give green techs a sense of false confidence?
  - *Target Audience?*
    - Refresher for Seasoned Tech on a Rare Cruise
    - Introduction to Complex, Unique Technology or Deck Work for Jr Techs or Interns
  - *What is most valuable in Video-Form?*
    - Hands-on Tutorials like Cable Terminations, Wire Splicing, etc.
    - Important RVSS Information like Appendix A & B, etc
    - Deck Operations (Most will need to be edited down for time)
    - Software Tutorials – Qimera, SIS, SCS, UHDAS, etc.)
    - Lab Overviews – so Scientists can see space & equipment available in labs
    - Ship-Mounted Sensor System Overviews – for ships' core permanent installations (think of it as meta-data)
  - *Repository of RVTEC Training Videos to Access while at sea?*
    - Internet Access
      - *YouTube, UNOLS Channel?*
      - *Institution Websites?*
      - Custom "www.*rvtec.org*" Website? Grant-Worthy? Host Institution?
    - Intranet Access
      - *Cross-Country 'Sneaker'-Net? (JK)*
      - ***Ship servers running offline, open-source YouTube-like apps like PeerTube!***
  - *Integration with Pre-Cruise Planning?*
    - PI or MarTech can find relevant videos and link to MFP