Network Training Event Overview
Presentation by OSU Marine Technician Group
Jeff Whiteside’s break out session 2019

- Jeff Whiteside presents a Friday break out session at RVTEC 2019

- Multiple attendees vocalized the benefit of the Friday session and the desire to see more training on the topic within the fleet

- OSU Marine Technician Group begins to organize an event to expand on Jeff Whiteside’s presentation
February 17\textsuperscript{th} - 19\textsuperscript{th} 2020

2.5-day event covering an introduction to network organization and administration

30 marine technicians from 8 institutions, NOAA, and UNOLS tech pool
RCRV break out session

- Data presence shore side computer cluster
- Sensor calibration and testing lab
- Ability to test equipment before it is installed on the new RCRVs
- Host training sessions for the marine technicians of the operating institutions.
How do we quantify the success of this event?

Initial Survey

Event with controlled Q&A sessions

Final Survey
How familiar are you with basic networking terminology (DHCP, IP addresses, VLANs, etc.)?

Initial:
- 1: 0 (0%)
- 2: 3 (13%)
- 3: 7 (30.4%)
- 4: 8 (34.8%)
- 5: 5 (21.7%)

Completion:
- 1: 0 (0%)
- 2: 0 (0%)
- 3: 1 (6.3%)
- 4: 11 (66.8%)
- 5: 4 (25%)
How comfortable are you with solving issues on a network?
How familiar are you with network diagnostic tools?

23 responses

Initial

- 3 (13%)
- 17 (73.9%)
- 1 (4.3%)
- 1 (4.3%)
- 1 (4.3%)

16 responses

Completion

- 0 (0%)
- 0 (0%)
- 8 (50%)
- 7 (43.8%)
- 1 (6.3%)
How confident are you in discussing how your shipboard network is configured?
Was your initial learning objective addressed during this training event?

Out of the 16 responses, 15 agreed that their initial learning objectives were met.
“I learned a lot; I came in with very little formal training on network architecture and troubleshooting so I found all the information valuable!”

“I wasn’t expecting to learn as much about network hardware troubleshooting as I did. A lot of the troubleshooting tools described in the training seemed to be geared towards finding faulty network hardware. A part of the troubleshooting puzzle I knew nothing about fixing beforehand.”

“Sooollooo many techs have the same challenge and the same questions. This subject matter is a difficulty that spans the whole fleet and all levels of experience.”
How do we make this training more accessible?
We placed a directional microphone on Jeff during the presentation, this allowed us to capture clean audio.

Using the supplied power point we were able to break down the videos into sections clearly defined by Jeff’s expertise.

Overlaying the clean audio onto Jeff’s power point allowed for easy to follow along training videos; this was also why we kept Q&A to the end of each section.

Videos are between 5 -20 minutes long allowing for viewer to tailor their learning experience.
Moving Forward

Annual trainings?
More in-depth sessions?
Sessions tailored to experience level?
“For future network training: maybe have a longer course (or two classes back to back) where you can get into more of the nitty gritty and/or be able to discuss common RV network equipment, like Peplink, a bit more.”

“More talk about shipboard specific network organization”

“You can never go wrong with more real-world examples/"hands on" stuff”

“This was one of the best and most relevant trainings I've ever attended with regards to shipboard networks and technician specific troubleshooting”
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