

Conducting a Workshop on Nautical Charting Fundamentals and S-57 Data Capture *NAMRIA experience*



IHO-Nippon Project Alumni Seminar 2023
Presented by: Ltjg Clarizza Mae B Biong

NAMRIA

National Mapping and Resource Information Authority

HYDROGRAPHY BRANCH

is a technical branch of NAMRIA that conducts hydrographic and oceanographic surveys and produces nautical products and publications

Survey
Support
Division

Nautical
Charting
Division

Maritime
Affairs
Division

Physical
Oceanography
Division

NAMRIA

National Mapping and Resource Information Authority

HYDROGRAPHY BRANCH

is a technical branch of NAMRIA that conducts hydrographic and oceanographic surveys and produces nautical products and publications

Survey
Support
Division

Nautical
Charting
Division

Maritime
Affairs
Division


Physical
Oceanography
Division

Re-entry Action Plan

Workshop on Nautical Charting

Fundamentals using GIS

IHO S-4 and S-57



ArcGIS Pro



By 2023, implement a workshop program that capacitates new personnel in the use of GIS to process, assess and analyze maritime data and produce nautical products.

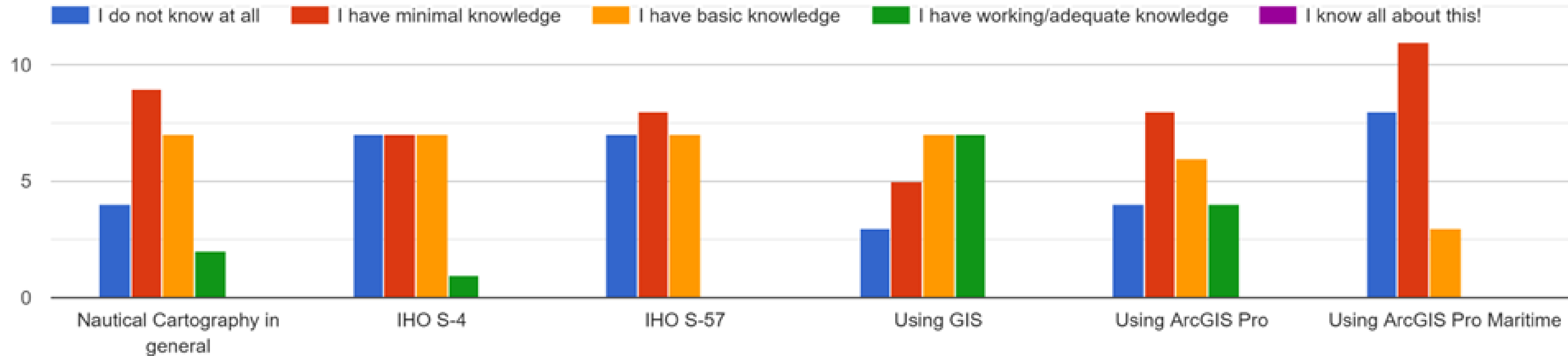
Expected outputs:

Workshop program that can be implemented and replicated for new hires;

Training results and evaluation

Participants' Pre-Workshop Survey Results

How would you describe your knowledge in the following areas?

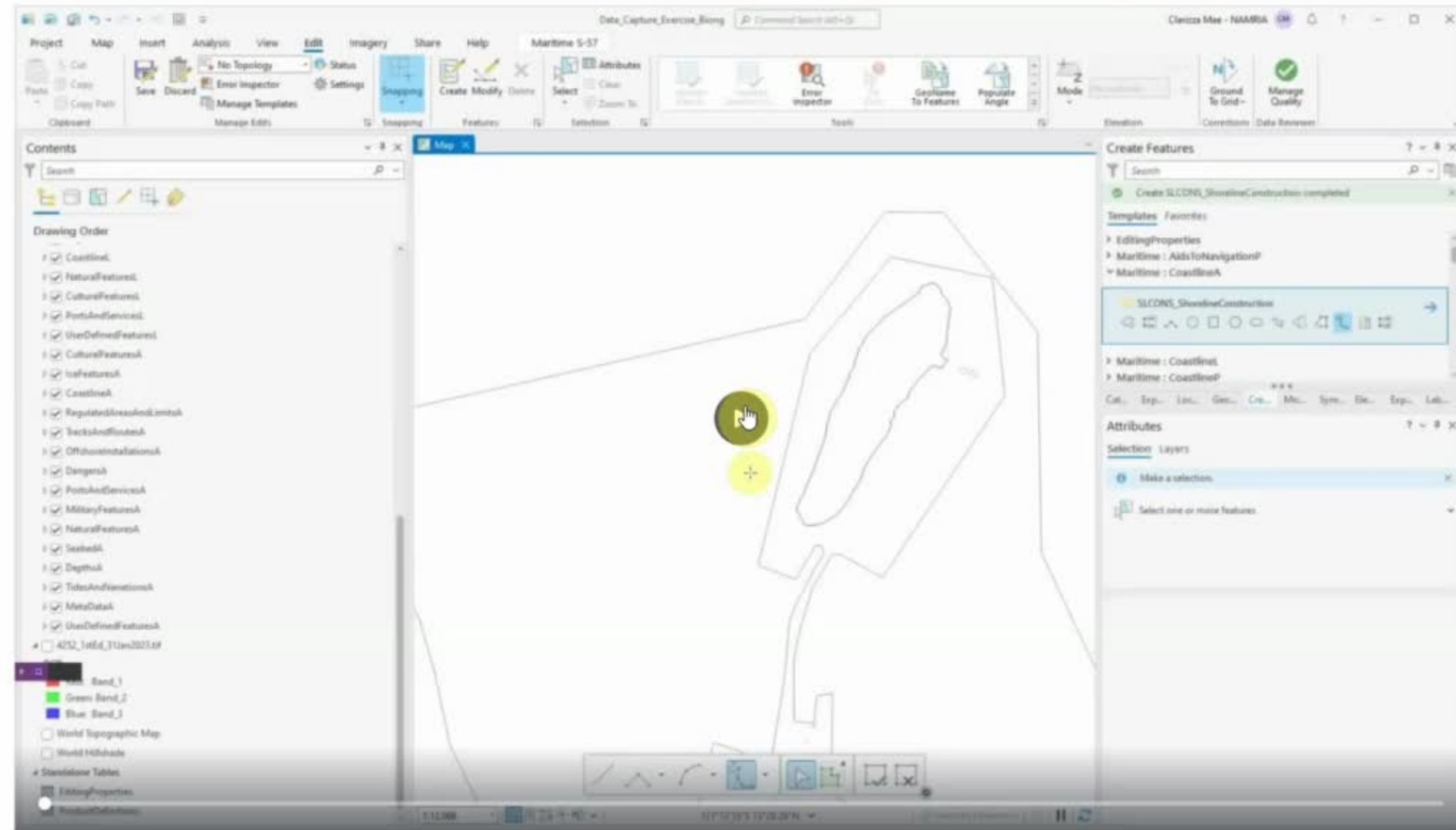


DATE	TOPICS COVERED
DAY 1: APRIL 17, 2023	<p>Overview of Nautical Charting (Definitions and Standards)</p> <p>S-57 Overview; ENC Product Specifications, Topology Polygons, Objects and Attributes, Meta Objects</p> <p>Dangers to Navigation (Rocks, Wrecks, Obstructions) Aids to Navigation (Buoyage and Lights)</p> <p>Introduction to the chart compilation exercise</p>
DAY 2: APRIL 18, 2023	<p>Chart Compilation (Instructor demo and follow along)</p> <p>Chart Compilation (self-paced, online check-in)</p> <p>Exercise Discussions</p>
DAY 3: APRIL 19, 2023	<p>Chart Compilation (self-paced, online check-in)</p> <p>ENC Product Construction (Instructor demo and follow along)</p> <p>Paper Chart Product Construction (Instructor demo and follow along)</p> <p>Exercise Discussions</p>
DAY 4: APRIL 20, 2023	<p>Chart Verification Process, Coast Verification Procedures</p> <p>Data Sources, Data Assessment, Product Maintenance</p> <p>Exercise on Data Assessment</p>
DAY 5: APRIL 21, 2023	<p>Exercise on Product Maintenance (ENC Updates, NM Applications, NM Blocks)</p> <p>Discussion of outputs</p> <p>Open Discussion</p>



Capture Land Area

03 Before capturing the land areas, make sure the coastline and shoreline construction features are complete.





What helped carry out your Re-entry Action Plan?

- *Organization's Readiness for change*
- *Support of Management*
- *Support of Co-Workers*
- *REAP's alignment with Strategic Direction, Plans and Programs*
- *Resources Provided*

Challenge

- *ICT resources – software and hardware*

Training Effectiveness Evaluation Results

- *The conduct of the workshop was rated excellent with a score of 90.48%.*
- *The training facilitators were positively assessed. Most of the participants rated the training facilitators excellent for being responsive and attentive to their needs.*
- *The course content and design of the program were relevant and organized.*
- *The resource speakers were rated excellent because they displayed a thorough knowledge of the topics they presented. They provided appropriate responses to all queries/questions of the participants.*
- *Most of the participants thought that the schedule provided was sufficient and the topics were discussed as expected.*

Some reviews from participants

“

I gained knowledge on the different IHO standards that I must be familiar with in my current tasks.

I learned the process how to make an ENC and the process of NCD, also how MAD creates NM and NW.

I will use this to enhance my charting capabilities in ArcPro

Hopefully there will be more training in the future and better collaboration between the two divisions MAD & NCD.

”



*Thank you for
your attention!*