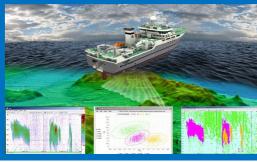# NaviSuite KUDA Multibeam Training Course

SALT + EIVA offer a training course to the users of NaviSuite KUDA that aims at enhancing your knowledge and skillsets on various aspects of the software application like Setting Up, Data Acquisition, Editing and Processing, Modeling. The course is exciting and designed to fit your needs and overcome some of the challenges that you come across on a day to day basis, whether you are in the field setting up the instrumentation or acquiring data, or, you are in the back office managing the data and converting them into deliverables this is a course that will improve your handle on the NaviSuite application.

The Trainer - Michael S Nyseth

Michael is a Senior Surveyor and Team Leader at the EIVA Help Desk Asia and brings with him a wealth of experience in a variety of disciplines as an offshore Surveyor. Michael has worked on projects involving Rig move support, hydrographic survey, ROV support, Offshore power cable installation, trenching support, as-trenched survey, vessel and sensor mobilization-interface-calibration, LBL network installation-calibration and operation and more.

The course design gives you the trainee, the full flexibility to choose what topics/packages you want to learn and excel in. Choose from the below:

Package	Date and time	Topics	Course Fee
Package A - Field	**12 and 13 March 2018 0900 to 1700**	**SETTING UP & SURVEY - NaviSuite KUDA**	**AUD 750.00**
Package B - Office	**15 and 16 March 2018 0900 to 1700**	**POST PROCESSING - NaviSuite KUDA**	**AUD 750.00**
Package C - Full	**12,13, 15, and 16 March 2018 0900 to 1700**	**SURVEY & POST PROCESSING - NaviSuite KUDA**	**AUD 1000.00****

Check out the detailed course content are on the ensuing pages.

Use the registration form to register and reserve seats for the course. Send us the completed registration form by 31 of January 2018. Seats are limited and will be allocated on first come basis.

Training Venue:

AGENDA for EIVA Training Course: NaviSuite Kuda Multibeam Training Course

Instructed by: Senior EIVA Surveyor Mikael S. Nyseth

Course description:

The training course is designed to give the users an introduction on a user level for online navigation and data acquisition as well as offline data processing. The training course duration is 4 days. The first half of the training course will cover online navigation and data acquisition using NaviPac 4.1 and NaviScan. The second half of the course will cover basic features in NaviEdit and NaviModel for data processing. Inside the course there will be small tasks for every user to complete, to get hands on experience. After completion of the training module an EIVA training course certificate will be issued to each participant.

Training daily from 9am – 4pm.

Day 1

- Introduction to EIVA (20 minutes)
  - Presentation of Support, EIVA Training site, Software packages and company information
  - Information on limitations of NaviPac 4.1
- Installation of Software (20-30 minutes)
  - NaviPac 4.1 and NaviScan
- Introduction to NaviPac 4.1 (30 minutes)
  - Project files
  - Naming, Offsets, POI, other explanations
  - Adding of vessels and sensors
- Start setting up test scenario project used for this training course (30 minutes)
- Break (10 minutes)
- Continue setup of test scenario used for training course (1hour)
- Information of Global settings (parameters) and use of GPS tide (20 minutes)
- Introduction to NaviPac Online (20 minutes)
- Lunch (30-40 minutes)
- Introduction to NaviPac Online continued (20 minutes)
- Introduction to Helmsman 3D (1.5hrs)
  - Views, Connection to NaviPac/NaviScan, Multiple views (map)
  - Simulation on existing setup
- Break (10 minutes)
- Helmsman 3D continues (1-1.5hrs)
- Quick demo of USBL calibration module (30 minutes)

Day 2

- Summary of day 1 (15 minutes)
- DataMon introduction (1 hour)
- Logging modules and setup (25 minutes)
- Template tracking, drag and other functionality (20 minutes)
- Break (10 minutes)
- Online eventing – introduction (20 minutes)
- Introduction to NaviScan config (30 minutes)
- Setting up test scenario (ROV job) in NaviSCan Config (1 hour)
    - Connection between NaviPac 4.1 and NaviScan
    - Simulation in NaviScan
- Break (30-40 minutes)
- NaviScan Online (2 hours)
    - Continue simulation setup
    - Logging of simulated data
    - Integration to Helmsman 3D with NaviPac and NaviScan data
- Other NaviScan features (15 minutes)
    - Playback of logged files
    - Check setup using SBD
- Break (10 minutes)
- Using Helmsman 2D on the simulated setup (30 minutes)
    - Plotting live coverage ++
- Additional time for questions and tasks for Online and data acquisition (to end of day)

Day 3

- Summary day 1 and day 2 (15 minutes)
- Introudction to Naviedit and NaviModel (15 minutes)
    - NaviEdit vs SQL
    - What is NaviEdit and what is it used for
    - Integration of NaviEdit and NaviModel
- Installation of NaviEdit and NaviModel (30-45 minutes)
- Database management (20 minutes)
- Importing of data (SBD, ALL, GSF etc) (20 minutes)
- Importing of ASCii data (tide, SOS etc) (30 minutes)
- Break (30-40 minutes)
- Header Editor (30 minutes)
- Data Editor (singlebeam and multibeam) (1.5-2 hours)
- Break (10 minutes)
- Batch Editing (20 minutes)
- Exporting of data (20 minutes)
- Test scenario processing for participants (pipeline survey example) (1 hour)
- Summary and questions / start patch test (until end of day)

Day 4

- Summary day 3 (15 minutes)
- Connecting to Naviedit/SQL (10 minutes)
- Patch test in NaviModel (1-1.5 hours)
    - Patchtest Theory:
        - Calibration Sequence
            - Latency Calibration, Pitch Calibration, Roll Calibration, Heading Calibration
    - Training with Data
    - Utilizing the Results:
        - Within NaviScan
        - Within NaviEdit
- Introduction to NaviModel environment (15 minutes)
- Break (10-15 minutes)
- NaviModel functionality and environment continues (2 hours)
    - General Layout of NM3
    - Model Types (TRN & TIN), Interpolation Methods (IDW & TIN), The Quad Tree Principle, Indexing a DTM
    - Raw Data View
    - Cleaning Methods:
    - Automatic Cleaning Methods
        - Automatic (SCAN / EC3D)
    - Semi-automatic cleaning methods
    - Manual Cleaning Methods
- Break (30-40 minutes)
- NaviModel continues (2 hours)
    - *Using Toppings:*
        - *Runlines, Displaylines, Waypoints, AutoCAD-files map views*
    - Functionality and exports
        - *Contours (export /import), Live Contours*
    - *Exporting Funtionalities*
        - *Generic Exporter, Area Export, Volume and Area Calculations*
    - *Pipe*
        - *Adding pipe (pipetracker, digitised, autoplaced on MBE data)*
        - *Exporting the pipe data*
    - *Eventing*
    - *Video integration in NaviModel*
    - *Practical example for group (pipeline on EIVA dataset)*
- *Break 10 minutes*
    - *Continue NaviModel where we left off*
    - *Saving the project and exporting files*
- Presentation of new EIVA features in NaviModel
    - Cable route planner, Line planner
- Summary of training course and questions (certification handout)