



- We run courses to meet customer demand and are happy to attempt to accommodate any date convenient to your crews. To check whether a course date is available please email: seamapsales@mind-technology.com
- We aim to fill a total of 8 places for each course. If you have less than 8, we can advertise the dates to other companies to make up the full delegate requirement.
- Seamap also offers a BuoyLink Operators Training Course, plus Advanced Engineering Training Courses for GunLink 2000 and 4000. Full details are available by emailing seamapsales@mind-technology.com
- Seamap must be in receipt of a purchase order to guarantee places. Seamap Pte Ltd. reserves the right to cancel courses if attendance is too low. To avoid disappointment, please book early as demand for places is high.



Course Venue

Village Hotel Changi in Singapore. Duration: 2 days.

The GunLink interface offers extensive knowledge to the operator to help monitor gun performance and predict failures, with this tool maintenance can be carried out to prevent the guns failing online. The GunLink course agenda significantly reduces the potential of vessel downtime.

This is an introductory course at operators of the GunLink software. It is designed to give users enough information to be able to operate a system on a production vessel. GunLink Web is covered in the course extensively to demonstrate it as a useful tool for the sub arrays performance and vessel QC.

The objective of the course is for participants to gain a basic understanding of GunLink architecture and practical experience of essential software issues relevant to general survey operation.

Upon completing this course, participants will be able to:

- Apply software updates and patches and update firmware as necessary
- Understand the functionality of the fundamental components of the acquisition software
- Describe the key hardware elements and how they interact with the rest of the equipment
- Create Database Backups and understand the process of contract archiving

The course is a combination of lecturing with the use of a projector and flipchart, software driven examples, and hands-on experimentation. We will aim to provide 1 dual-screen workstation for each pair of students, who will take it in turn to operate the various software applications.

The course agenda detailed on the reverse is an outline of the material covered. Please note that actual content may change as we like to adapt the course to suit the personnel, their specific requests and their company's use of GunLink. The GunLink course expands the user's knowledge to the GunLink's true capabilities which are far beyond the Gun Controller.

Students are provided with a set of course notes as well as stationery for making their own notes. No previous knowledge of the system is required. Delegates are not required to bring anything to the course. Students will all receive certificates on completion of the course. These will be handed out at the end of the course or posted to your company's head office shortly after course completion.

All accommodations and travel to and from the course is the responsibility of the delegate. The course runs from 09:00 until 17:00 each day. To ensure course content isn't missed we do ask that you book any return flights with a departure time of no earlier than 20:00 on the last day of the course.

Refreshments are provided during the breaks, and water is provided throughout the course. Lunch is provided on both days. If delegates have particular dietary requirements, special requirements, allergies or are registered disabled then please email seamapsales@mind-technology.com with details at least 5 working days in advance of the course start date. All information will be treated in the strictest of confidence. All Singapore enclosed public places, including training rooms, are non smoking. We therefore ask delegates to respect this at all times during their stay.

Course Agenda:

1. Review of Basic Seismic Principles

- Spherical Divergence
- Principle of Superposition
- Basics of Seismic Air Gun Operation
- Essential Features of a Gun Controller
- Dynamic Timing of a Source

2. Introduction to the GunLink System

- Key Features
- Key Components and Their Organisation
- Hardware Architecture
- Software Architecture
- Analogue to Digital Conversion

3. Configure Software for Digital Source Controllers

- Building a Configuration by Example
- GunLink Web Maintenance of Configurations
- Swapping Guns in GunLink Web
- Swapping Solenoids in GunLink Web

4. Data Acquisition

- GunLink Panel Applet - Reinforcing Explanation of the Host Programs and Controlling Them
- Display Software
- Navigation Header Interface
- System Timing
- Farfield Synthesis

5. Timing Control Unit

- Basic Operation
- TCU Node and Disk Indicators

Course Schedule:

	Training Day 1
Morning Session 1	09:00 - 10:30
Morning Break	10:30 - 11:00
Morning Session 2	11:00 - 12:30
Lunch	12:30 - 13:30
Afternoon Session 1	13:30 - 15:15
Afternoon Break	15:15 - 15:45
Afternoon Session 2	15:45 - 17:00

6. GunLink Web

- Introduction and Initial Demonstration
- Line Summaries
- Gun Performance Summaries
- Depth and Pressure Status Displays
- Frames - Sensor and Hydrophone Traces
- Gun Delay and Error Statistics
- Graphical Representation
- Inventory Management
- Maintenance and Reports

7. Operational Procedures

- Soft Start
- Sensor Signature Interpretation
- Using the Smart Algorithm
- Host System Preferences
- Learning by Recovering From a Broken Interface
- Maintenance

8. Database Management

- Summarising Data
- Contract Archiving

9. Applying Software Patches

- Automatically and Manually Updating Firmware

10. Troubleshooting

- Tasks for Various Software Components
- Hardware Related Troubleshooting
- Seeking Further Support

Further Information:

Course Leader:

Tim Pinnington, your course trainer, will be happy to answer any queries you may have during the course.

Course Notes:

Students are provided with a set of course notes.

GunLink Query:

Should you have any technical queries regarding our GunLink System, please email to: gunlink_support@mind-technology.com

Please Note:

Further courses in Singapore can be arranged upon request. We aim to fill a total of eight places on each course. Seemap Pte Ltd reserves the right to cancel courses if attendance is too low.

Please be aware that all course cancellations will be charged at full rate.

Students will all receive GunLink Training Certificates on completion of the course. These will be handed out at the end of the course or posted to your company's head office shortly after course completion.



Tim Pinnington - Trainer





Hotel Guestroom



Training Room



Guest Pool

Hotel Accommodation and Training Venue:

Unwind from the bustle of city life at the minimalist-chic Village Hotel Changi, just minutes away from the Singapore Changi Airport, where the uncluttered décor of sleek lines and stylish interiors offer a quiet repose for some needed rest and relaxation. Retreat to a relaxing abode of their unique guest rooms and shower facilities that come complete with basic amenities to make your stay more comfortable.

Pamper yourself at the rooftop spa or simply indulge in the swimming pool, as you look out into the horizon and watch planes fly by.

Check in is from 14:00 on the day prior to the start of the course. Check out is 12:00 noon. Luggage can be looked after by Hotel Reception while guest are waiting for rooms or about to depart the hotel.

Village Hotel Changi

1 Netheravon Road
Singapore 508502
Tel: (65) 6379 7111
Fax: (65) 6545 0113

*Please check with hotel reception for the allocated training room.

Free Hotel Shuttle Service:

The hotel has a 24 hour courtesy shuttle service from the airport to the hotel and visa versa. We encourage all trainees to take advantage of this free service provided by Village Hotel Changi. Please see attached Shuttle Service Schedule on the following page. Should you decide to catch a cab from the airport to the hotel there is a constant flow of taxis with an approximate fare of S\$15.00 (one way). The hotel is only 10 minutes away from the airport.

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Village Hotel Changi - Changi International Airport (Shuttle Service)

Route 1 - To Changi International Airport

Departs From Village Hotel Changi	Arrives at Terminal 1 Departure Hall	Arrives at Terminal 2 Departure Hall
05:00	05:20	05:25
06:00	06:20	06:25
07:00	07:20	07:25
08:00	08:20	08:25
09:00	09:20	09:25
10:00	10:20	10:25
11:00	11:20	11:25
12:00	12:20	12:25
13:00	13:20	13:25
14:00	14:20	14:25
15:00	15:20	15:25
16:00	16:20	16:25
17:00	17:20	17:25
18:00	18:20	18:25
19:00	19:20	19:25
20:00	20:20	20:25
21:00	21:20	21:25
22:00	22:20	22:25
23:00	23:20	23:25
00:00	00:20	00:25
01:00	01:20	01:25

Route 2 - To Village Hotel Changi

Departs From Terminal 2	Departs from Terminal 1	Arrives at Village Hotel Changi
05:25	05:30	05:50
06:25	06:30	06:50
07:25	07:30	07:50
08:25	08:30	08:50
09:25	09:30	09:50
10:25	10:30	10:50
11:25	11:30	11:50
12:25	12:30	12:50
13:25	13:30	13:50
14:25	14:30	14:50
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18:25	18:30	18:50
19:25	19:30	19:50
20:25	20:30	20:50
21:25	21:30	21:50
22:25	22:30	22:50
23:25	23:30	23:50
00:25	00:30	00:50
01:25	01:30	01:50

1. Complimentary shuttle service is for hotel guests ONLY.
2. Seats are subject to availability on a first come, first served basis.
3. Guests are advised to be present at respective Coach Bays (Village Hotel Changi, Terminal 1&2) ten minutes prior to departure time.
4. Times are estimated and subject to change due to traffic conditions at time of travel.
5. For arrival transfers, guests MUST approach respective Ground Transport Desk (Terminal 1&2) within Arrival Hall for assistance.
6. Upon arrangements by the Ground Transport Desk, the shuttle service will pick up the guests from the respective terminal. Boarding will be at the respective Coach Bay (Terminal 1&2).
7. Guests arriving from Terminal 3 will have to make their way to Terminal 1 or 2 via to board the shuttle service.