



- ◆ SAFETY
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LTR TRAINING SYSTEMS, Inc.

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Land Navigation Rough Land Travel Program

Curriculum Overview
(4 hrs classroom, 12 hrs field exercise)

The Land Navigation and Rough Land Travel Program is a two-day, academic and field course that provides information on the general and specific aspects of map and compass navigation. This program utilizes demonstrations, slide and video presentations, and printed materials to familiarize students with the needed skills for reading maps, planning routes and maintaining compass bearings under field conditions. Course includes an overnight field exercise where navigation and rough land travel techniques are practiced. Dinner will be provided to participants.

Course Objectives:

- 1) To be able to identify the different types of maps available and how they are used as a graphic representation of the earth surface.
- 2) To familiarize students with the cardinal compass points and means of using compasses to determine headings, specific position and path of travel
- 3) To be able measure distances before and during selected paths of travel
- 4) To understand techniques for dealing with changes of headings due to terrain or operations
- 5) To be familiar with common techniques for determining position and travel through celestial aids and personal pace counts.
- 6) To familiarize students with techniques for crossing rivers and hazardous terrain safely.



Course Content:

1. Map Types, Scales and distance
2. Magnetic Variation, Isogonic and Agonic lines,
3. Map Orientation
4. Planning basic headings, reciprocal headings, Deliberate offset
5. Distance measuring, pace counts.
6. The Compass as a tool, Effective use of compasses in navigation
7. Combining map and compass
8. Using Contour Interval for route planning
9. Understanding Transverse Mercator Grid System
10. Understanding Latitude and Longitude
11. Maintaining a course of travel under field conditions
12. Bi-angulation and Tri-angulation for specific position
13. Stick and Shadow cardinal direction
14. Celestial Cardinal direction
15. GPS Navigation Techniques
16. Rough Land Navigation and Travel

PROGRAM INFORMATION

Class Date: CALL

Class Time: 8:00 am to 5:00 pm

Size: 10 students minimum

Course Fee: CALL

Student Requirements: Fitness to Participate, Risk Agreement, Outdoor clothing for current climate, Tent, Sleeping bag and Pack for overnight camp and rough land traverse. LTR can assist with some camping materials.