Image Analysis Training Course
Introduction

The growth in ISR capability on manned and unmanned platforms, to address the intelligence needs of decision makers, together with the evolution of image data processing tools, techniques and the improvement of on-board sensors has resulted in an increased need for skilled technicians capable of timely image interpretation and analysis.

MASS has a vast amount of experience in the delivery of training to UK and international customers and our Image Analysis courses are designed to provide a thorough understanding of the relevant aspects of the intelligence tasking cycle, sensors and image interpretation. The courses are modular, enabling cost-effective targeting of knowledge and skills gaps within your organisation.

Imagery Analysis (Level 1)

The Imagery Analysis (Level 1) course will provide an introduction to the fundamentals of Imagery Analysis, outlining the core knowledge and techniques associated with Imagery Intelligence (IMINT) discipline, enabling personnel to perform the duties of an Imagery Analyst. Upon the successful completion of this course, which utilises a combination of lectures, practical exercises and experiential learning, attendees will be fully conversant with the roles and responsibilities of the Imagery Analyst.

Course Content

The Imagery Analysis (level 1) course will contain the following modules:

- History of Reconnaissance and Imagery Interpretation
- Intelligence Tasking Cycle
- Pre-Mission Planning
- Image Interpretation Techniques (Hamshaw-Thomas)
- Image/Map Correlation
- Mapping & Charting
- Sensor Overview
- Introduction to Electro-Optical Sensors
- Introduction to Infra-Red Sensors*

Introduction to RADAR Sensors*

This module provides a basic introduction to the sensor type, how best to employ it and the conditions required for optimum results.

Electronic Light Table (ELT)

This module provides an awareness of how to view the resultant soft-copy digital image using an Electronic Light Table (ELT) system. For the purpose of this module, the trainers will be using Google Earth as the nominated software application.

Military Equipment Recognition*

Basic Aircraft Recognition
How to identify a given aircraft, based on its component parts - wings, engines, fuselage and tail (WEFT).

Basic Ship Recognition
How to identify a given ship, based on its component parts - mast, armaments, superstructure and hull (MASH).

Basic Armoured Fighting Vehicle Recognition
How to identify a given piece of military ground equipment, based on its component parts - wheels, hull, armaments, turret (WHAT), component parts.

Civilian Installations*

Industrial Facilities and Associated Infrastructure
How to identify the component parts of civilian industrial manufacturing facilities, from raw materials to final product production. Potential facilities include power plants, oil refineries, ports and harbours, airports etc.

Transportation Networks
Outlines the features associated with road, rail networks linking major installations and distribution hubs. Component parts of a road and rail network systems, including pipeline surveillance etc.

Consolidation Exercises*

* Denotes options dependent on customer preferences and available imaging platforms.

Course Duration

5 Days

Entry Criteria

No previous Imagery Analysis knowledge and experience is required to participate in this course.