



Space - Fundamentals Course

Introduction

The Space Fundamentals course is designed to inform and introduce students to the key fundamentals of operations (primarily military ISR) in space. This includes international definitions, recognised satellite orbits with benefits and disadvantages with regards to ISR, space operations doctrine and policy and technological considerations.

This is an instructor led tutorial experience using a combination of lecture, explanations and demonstrations of theory, and examples relevant to military ISR operations in space. The course will include analysis and explanation of current space ISR capability and its utility in support of military operations, in war and peace time. The fundamentals delivered will enable your organisation to develop a sound foundational knowledge of planning and operations in the space domain.

The course is designed to complement the basic communication and EW fundamentals, allowing your planning, operational and management personnel to understand space theory fundamentals and apply and manage the principles as applied to military and civilian operations in space. It is recommended that attendees on this course have

What you will learn:

- Overview of the space environment
- Understanding of different types of satellite orbit
- Advantages and disadvantages of orbits
- Satellite coverage
- Use of satellites - ISR, PNT, communications
- Indicators, warnings and tracking of events
- Satellites - payloads, launch, operation and optimisation
- Satellite planning
- Risks of space operations
- International space policy and doctrine
- Space definitions

Who should attend?

Military and civilian EW and ISR practitioners and managers from operational, planning and engineering backgrounds. Capability programme & project managers, systems engineers and technical staff. Personnel involved in formulating strategy, policy, doctrine, processes or procedures for ISR and EW operations in space.

Key Organisations

Ministry of Defence

HQ Space, Joint, Army, Navy and Air Force EW operators/analysts/

All Government agencies, industries and organisations interested in operational and technical aspects of EW in space

All Government agencies, industries and organisations interested in development of EW capability in space and technical aspects COMINT.

Course Duration
1 Week

Location
Mercury EW Ltd – Training Facility