



Communications Principles Course

Introduction

This course is used to teach delegates new to the Electronic Warfare (EW) environment the underpinning communications knowledge required prior to enrolling on other Mercury EW Ltd courses. It addresses the basics of communications, including: common terminology, properties of electricity, Electromagnetic (EM) radiation and the EM Spectrum, how different forms of communications are created and propagated through various mediums, as well as the properties and functions of different types of antenna. A range of practical exercises are used to compliment the theoretical training. On completion of the course delegates will be well placed to understand communications and their effect on EW operations.

What you will learn:

- Basic mathematics associated with communications
- Properties of electricity
- Basics of communications
- Antenna theory
- Waveforms
- Modulation techniques (Amplitude Modulation (AM), Frequency Modulation (FM), Pulse Modulation (PM))
- Propagation
- Direction Finding (DF) Theory.

Who should attend?

Military and civilian Communications Intelligence (COMINT) Electromagnetic Warfare (EW) practitioners from Strategic, Operational and Tactical backgrounds. Anyone involved in the practical application, delivery and conduct of EW in a deployed, operational context.

Key Organisations

Ministry of Defence

HQ Joint, Army, Navy and Air Force

All Government agencies, industries and organisations interested in the development of COMINT/EW capability.

Course Duration
1 Week

Location
Mercury EW Ltd – Training Facility