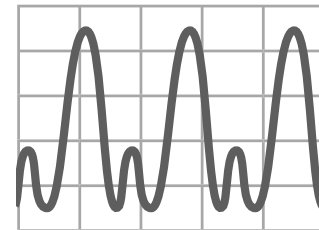


Electromagnetic Intelligence (ELINT) Technical Analysis Course (Foundation)



Who should attend?

Military and government civilian EW practitioners engaged in the technical analysis of ELINT data. Ideally suited for experienced ELINT technical data analysts.

Key Organisations

Ministry of Defence

**HQ Joint, Army, Navy and Air Force
ELINT operators/Analysts**

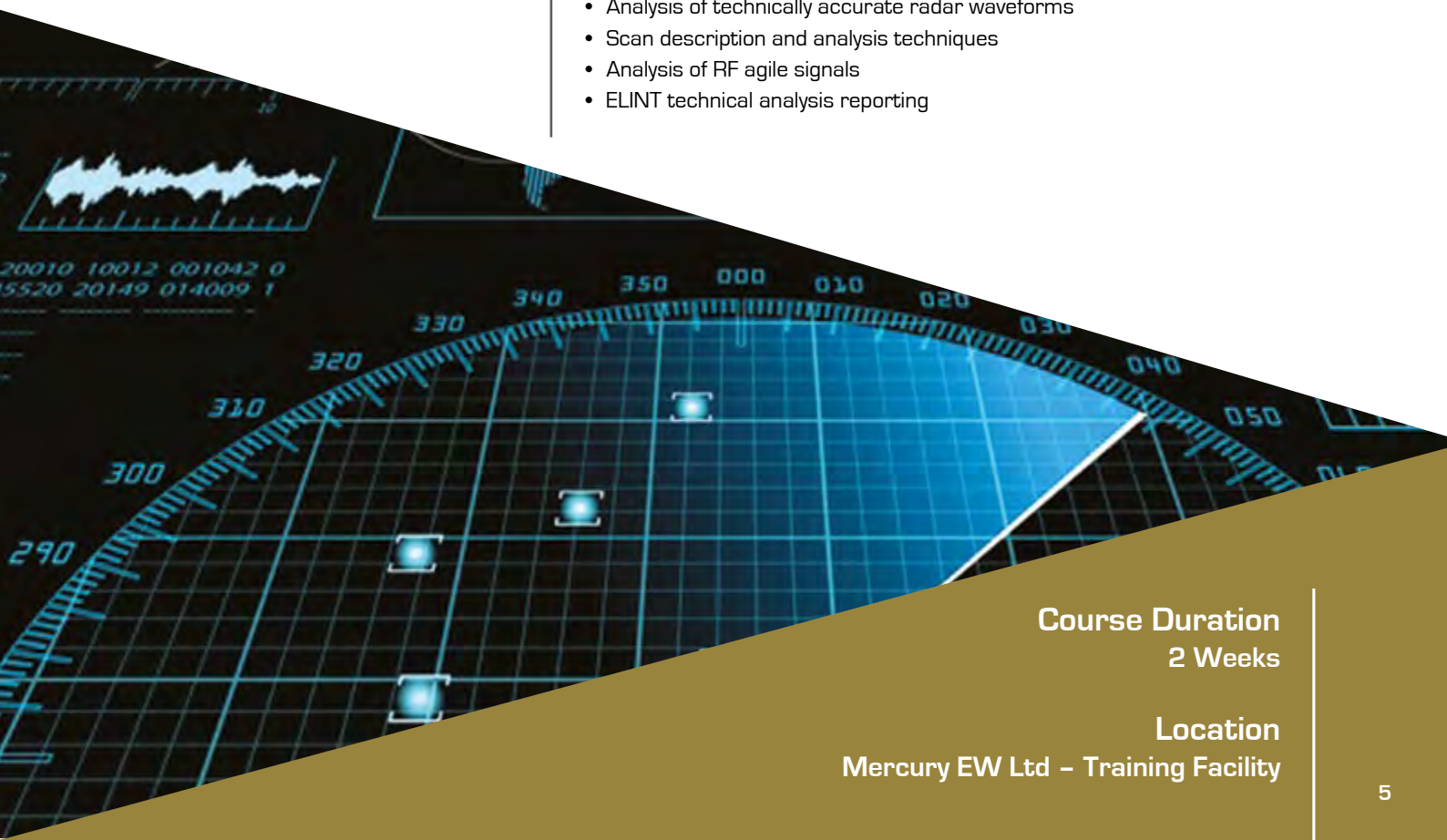
All Government agencies, industries and organisations interested in operational and technical aspects ELINT.

Introduction

This course covers the principles from our theoretical course and progresses to focus on key components of ELINT Technical Analysis, aiming to provide participants with an operational overview of ELINT and its function in modern warfare. The curriculum includes both theoretical and practical lessons. Practical sessions utilise the R&S®TPA software suite, which allow participants to perform technical analysis of ELINT data. By combining theoretical instruction with the application of the R&S®TPA software, participants can develop knowledge of radar system parameters and the skills necessary for ELINT analysis and reporting.

What you will learn:

- Major ELINT Signal Parameters
- Radar theory and Electronic Intelligence (ELINT)
- Major ELINT signal parameters
- Radar equations and constraints
- ELINT interception system characteristics
- Characteristics of a pulse
- Interpulse modulation description and analysis techniques
- Intrapulse modulation description and analysis techniques
- Pulse train deinterleaving
- Introduction to ELINT technical analysis procedures
- Introduction to Pulse Analysis Tool – real time Pulse Descriptor Word (PDW) collection and analysis tool
- PDW analysis
- IQ analysis
- Practical training using R&S®TPA software
- Analysis of technically accurate radar waveforms
- Scan description and analysis techniques
- Analysis of RF agile signals
- ELINT technical analysis reporting



Course Duration
2 Weeks

Location
Mercury EW Ltd – Training Facility