



Introduction to VMF

- 24-25 March 2010
- Tony Castle, SyntheSys, UK
- Canberra
- Fee: AU\$1430 (includes GST)

Course Description

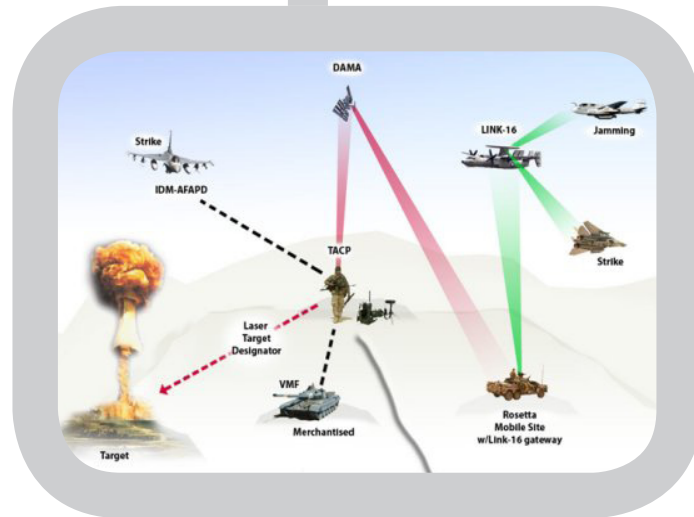
This course familiarises the delegates with all aspects of current VMF operations. The course is based around the US MIL-STD-188-220, MIL-STD-2045-47001 and MIL-STD-6017. Currently used mainly by the US armed forces, this TDL is emerging as the fastest growing system in today's modern armed forces.

The transmission protocols are considered in detail, as are the message headers, structure, and use of the K-Series VMF messages. Interoperability is an important feature of this course.

Attendees will also receive a copy of the manual 'An Introduction to VMF' plus a CD containing the course presentations.

Course Outline.

- VMF history
- VMF requirements, principles, Ethernet, Open Systems Interconnection (OSI) 7 layer model, definitions of throughput
- Frames, Types of Service
- Modes of Operation, Asynchronous Balanced Mode (ABM) etc., Addressing, Unit Reference Number (URN)
- Network Access Delay (NAD), Net Access Control (NAC), Automatic Repeat Request (ARQ), Sliding Window
- Radios, terminals, modems – Tactical Communication Interface Module (TCIM), TacLink, F/A-18 Digital Communication System (DCS), Internet Controller (INC)
- Networks - joining, leaving
- MIL-STD-2045-47001 - Application Header
- MIL-STD-188-220 - CNRs
- VMF Syntax - Field Presence Indicator (FPI), Field Repetition (Recurrence) Indicator (FRI), Group Presence Indicator (GPI), Group Recurrence Indicator (GRI)
- K-Series messages, Functional Area Designators (FAD)
- VMF Uses - Interoperability
- Tactical Internet, User Datagram Protocol (UDP), Transmission Control Protocol / Internet Protocol (TCP/IP), intranet protocol (ip), Situational Awareness (SA)
- MIL-STD-188-220 C version changes
- URN Issues
- Entity ID Reference Number (EIRN)
- SA Issues
- Data Forwarding Issues
- VMF for CAS



Target Audience

This course has been developed for military, government and defence industry representatives who are involved in the operation, support, management and provision of VMF systems.

The course includes both an operator and engineering perspective to the establishment and management of effective VMF networks.

SyntheSys is a specialist training and consultancy company working in the field of military tactical data links (TDLs). With over 20 years of TDL experience, SyntheSys provides independent, up to date and operationally relevant TDL training.

SyntheSys consultants are either highly qualified systems engineers, or former military operational experts with many years of TDL experience.

SyntheSys is recognised as a leader in the field of VMF training and consultancy both in the UK and the USA.

Teaching Arrangements:

The course will be conducted from 9.00 am to 5.00 pm. Morning tea, lunch and afternoon tea will be provided.

For further info please contact

Anne-Marie Eliseo +61 8 8343 8710

or email industryeducation@nicta.com.au

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Introduction to VMF

Date: 24-25 Mar 2010 Fee: \$1430 AUD (includes GST)

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