

Combat Net Radio Bearer (MIL-STD-188-220)

- 22-23 March 2010
- Tony Castle, SyntheSys, UK
- Adelaide
- Fee: AU\$1430 (includes GST)

Course Description

Based on the newly published MIL-STD-188-220D change 1, the course covers in detail all areas of the bearer protocols and introduces the associated MIL-STDs to ensure a complete understanding of the overall system.

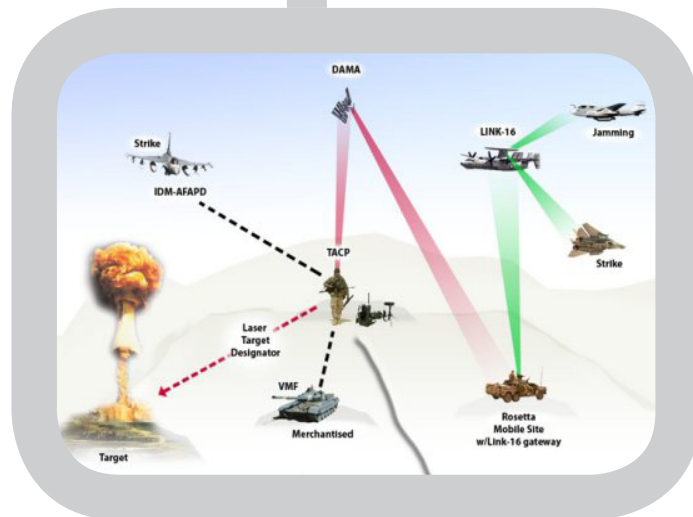
The course is designed as a follow on to the Introduction to VMF course and will provide the delegate with in depth information about the CNR bearer protocols.

Course Outline.

- Introduction: MIL-STD-188-220D; CNR Definition; CNR/VMF Association; CNR Basic Principles; Data Frame; Network Access; Types of Service.
- OSI 7 Layer Model: Introduction/ISO Standards; 7 Layer Model as used for CNR; Data Frame Compilation.

Each of the layers utilised for CNR will be explained in detail.

- Physical Layer: COMSEC; Transmission Modes; Transmission Frame; Primitives; Modulation; Physical Layer Concatenation.
- Transmission Header: Header Format.
- Data Link Layer: Frames; U, I and S PDUs; Addressing; Control Field; Data Link Concatenation; Primitives.
- Types of Service (TOS): TOS 1-4; Flow Control; Duplicate Detection; Station Class; TOS Determination; Quiet Mode.
- Network Access Delay (NAD): Network Access Control Requirements; P-NAD; H-NAD; RE-NAD; R-NAD; DAP-NAD; DAV-NAD; FOAR.
- Timing and Associated Parameters: Explanation of timing parameters.
- Exchange Network Parameters (XNP): Network Control Station; Dynamic and Static Stations; XNP Messages.
- Network Layer: Intranet Header; Address Resolution Protocol; Neighbour Discovery; Topology Update; Primitives; Internet Protocol.
- Transport Layer: Transmission Control Protocol (TCP); User Datagram Protocol (UDP); Segmentation Reassembly.
- Hardware: Radios and Modems; A brief description of some commonly used CNR and associated modems.



Target Audience

This course has been developed for military. The MIL-STD-188-220 training course is a natural progression for those who already have a good overall understanding of VMF systems, but wish to expand their knowledge in this challenging area. The course is ideally suited for engineers and operators involved in the implementation, integration or operational use of CNR systems.

About SyntheSys

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

How to Register:

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➔ Register using the form on the back of this page

from imagination to impact

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How to register:

- Fax this form to +61 8 8343 8711 or
- Scan and email this form to industryeducation@nicta.com.au

Combat Net Radio Bearer (MIL-STD-188-220)

Date: 22-23 Mar 2010 Fee: \$1430 AUD (includes GST)

Location: Conference Centre Technology Park, Mawson Lakes, SA

Title:	Given Name:	Family Name:
Position:	Organization/Division:	
Postal Address:		Postcode:
Telephone No	Fax No	
Dietary preference:	Email:	

Method of Payment (please tick below):

- Cheque** (payable to National ICT Australia Ltd)
Please forward the cheque and this registration form to:

Annette Van Bramer, NICTA,
Innovation House, First Avenue,
Mawson Lakes SA 5095, Australia.

Credit Card

- Visa
 Master Card
 Amex

Credit Card No	Expiry Date
Name on Card	<input type="checkbox"/> Tick if receipt required
Amount AU\$	Signature
Email address of card holder	

Electronic Funds Transfer

Please advise by email to Annette Van Bramer
annette.vanbramer@nicta.com.au
when payment is made.

Bank: Commonwealth Bank of Australia
Account Name: National ICT Australia Limited
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