

Dates

Tuesdays - September

10.00am – 12.00pm (AEST)

Course length

Eight Hours (4 x 2-hour sessions)

Delivery method

Online

Pricing

\$1,280 + GST

Prerequisites

Nil. This course is designed for student (individual) new to the radio / critical communication industry.

Course Objectives

This course introduces the student to digital land mobile radio standards. Modules include an overview of digital radio standards as a transmission media including the different standards, modulation, and vocoders. Each of the respective digital standards will be investigated.

The information is introductory in nature and designed for all audiences, however a basic understanding of radio communications would be beneficial.

COURSE OUTLINE

Introduction to Digital Land Mobile Radio

- What is digital land mobile radio?

Radio Types and Systems

- Radio Systems
 - Conventional
 - Trunking
- Protocol
- Bandwidth
- Modulation
- Vocoders
- Bit Error Rate
- Standards
 - NXDN / dPMR
 - DMR (Tier 2 & 3)
 - Tetra
 - P-25 (Phase 1 & 2)
- Coverage Modelling & Testing

P-25 (APCO Project 25)

- Overview & Features
 - Phase 1
 - Phase 2
 - Conventional
 - Trunking
- Voice & Data Standards
- Encryption
- System Design & Components
- Performance & Reliability
- Manufactures & Cost

TETRA

- Overview & Features
 - Trunking
- Voice & Data Standards
- Encryption
- System Design & Components
- Performance & Reliability
- Manufactures & Cost

Digital Mobile Radio (DMR)

- Overview & Features
 - Tier 2 - Conventional
 - Tier 3 - Trunking
- Voice & Data Standards
- Encryption
- System Design & Components
- Performance & Reliability
- Manufactures & Cost

NXDN / dPMR

- Overview & Features
 - Conventional
- Voice & Data Standards
- Encryption
- System Design & Components
- Performance & Reliability
- Manufactures & Cost

Digital Standard Comparison

- Technology Comparison
 - NXDN / dPMR
 - DMR (Tier 2 & 3)
 - Tetra
 - P-25 (Phase 1 & 2)
- Interoperability
- Integration
- Radio Management Systems
- Scoring and Weighting
- Workshop & Exercise