

# Syllabus Report (SYL)

## CorePass® Public Safety Radio



7024:2024

Generated At: Monday, August 25, 2025

<b>IQF Level</b>	2	<b>IQF Credit</b>	2
<b>Approved References</b>	Best Practice for Radio Users (Tait Academy)   Radio Handbook (Maritime New Zealand)   Essentials of Firefighting (IFSTA)   Disaster Emergency Communications: Planning and Response Guide (Wilson, 2014)   Say Again, Please: Guide to Radio Communications (Gardner, 2019).		
<b>Special Notes</b>	Two-way radio includes HF, VHF or UHF band radios, using base, mobile or hand-held devices.		

### Describe HF, VHF and UHF radio bands and their applications 702424D01

**Performance** Describe HF, VHF and UHF radio bands and contrast their use in public safety.

**Standards** In accordance with approved references.

**Conditions**

**Comments**

### Explain basic radio wave propagation 702424D02

**Performance** Explain basic radio wave propagation

**Standards** In accordance with approved references.

**Conditions**

**Comments** Range: direct wave, sky wave, ground wave, antenna polarity (vertical/horizontal).

### Operate two-way radio within public safety context 702424D03

**Performance** Operate two-way radio within public safety context using standard voice procedures, callsigns, codes and prowords.

**Standards** In accordance with approved references, organisational doctrine and regulatory requirements.

**Conditions** Given at least two situations that encounter difficult operating conditions (such as noise, rain, snow, wind, poor reception, interference etc).

**Comments** Range: aerial connection/check, power up, channel selection, transmit, receive, power off. May include relaying radio messages.

### Recall and apply phonetic alphabet and numbers when using two-way radio 702424D04

**Performance** Recall and apply phonetic alphabet and numbers when using two-way radio

**Standards** In accordance with approved references.

**Conditions**

**Comments** NATO phonetic alphabet to be used.

<b>Conduct radio check using two-way radio</b>		<b>702424D05</b>
Performance	Conduct radio check and report signal strength using two-way radio.	
Standards	In accordance with approved references and organisational doctrine.	
Conditions		
Comments		
<b>Identify radio channels and describe their use</b>		<b>702424D06</b>
Performance	Identify radio channels and describe their use.	
Standards	In accordance with approved references, organisational doctrine and regulatory requirements.	
Conditions		
Comments	Must understand purpose of different channels available on the radio and protocols for their use. Channels may be substituted with frequency if applicable. Licensing requirements must be simply explained for channels/frequencies used.	
<b>Maintain two-way radio for operational readiness</b>		<b>702424D07</b>
Performance	Maintain two-way radio for operational readiness	
Standards	In accordance with approved references and organisational doctrine.	
Conditions		
Comments	Range: cleaning, recharging, maintenance, accessory connection/disconnection, correct handling.	
<b>Troubleshoot common two-way radio operation issues</b>		<b>702424D08</b>
Performance	Troubleshoot common two-way radio operation issues	
Standards	In accordance with approved references and organisational doctrine.	
Conditions		
Comments	May include: out of network/repeater coverage, poor reception, increasing antenna height, use of monitor or squelch functions, changing radio channels, checking volume, changing battery, checking fitting of antenna.	
<b>Describe key terms associated with public safety radio technology</b>		<b>702424D09</b>
Performance	Describe key terms associated with public safety radio technology.	
Standards	In accordance with approved references and organisational doctrine.	
Conditions		
Comments	Must include, but not limited to: Intrinsically safe, simplex, duplex, repeater, lone worker, man down, Long Term Evolution (LTE), Push to Talk over Cellular (PoC).	
<b>Recall situations where two-way radio may be contraindicated.</b>		<b>702424D10</b>
Performance	Recall situations where two-way radio may be contraindicated.	
Standards	In accordance with approved references, organisational doctrine and regulatory requirements.	
Conditions		
Comments	Range: must include, but not limited to; military or diplomatic zones, use around sensitive medical devices and sources of ignition (flammables and explosives).	
<b>Recall distress and emergency radio procedures</b>		<b>702424D11</b>
Performance	Recall distress and emergency radio procedures.	
Standards	In accordance with approved references, organisational doctrine and regulatory requirements.	
Conditions		
Comments	Range: must include, but not limited to; mayday, pan pan. May include use of emergency button/lone worker function.	

