

# BAE Systems Open Standards, Cyber over RF Academy

Transform your workforce with BAE Systems' Open Standards, Cyber over RF (CRF) Academy – a dynamic, tier-based training programme that equips your staff with the essential foundations for Software-Defined Radio (SDR) application development. By selecting from a range of customisable modules, students progress through structured learning – gaining the foundational expertise required to start designing, developing and deploying Open Standards compliant CRF SDR applications.

The US DoD has adopted the Modular Open Systems Approach (MOSA) and the UK MoD follows the Standards for Integrated C5ISR/EW Systems (STICS). These define a suite of Open Standards and specifications enabling modularity and interoperability of C5ISR and EW systems.

The benefits of adopting Open Standards include:

- **Modularity:** components are supplied by multiple vendors, preventing lock-in
- **Interoperability:** enables disparate systems to communicate and function together
- **Portability:** OpenCPI applications can be ported between compliant SDRs and similar resources
- **Flexibility:** systems can adapt quickly according to operational needs
- **Scalability:** scale only the necessary components that you need to
- **Cost-effectiveness:** promotes the reuse of existing H/W footprint
- **Governance:** ensures systems meet national and international obligations
- **Future proofing:** capabilities evolve and can be augmented with emerging technologies

## Why BAE Systems?

BAE Systems is a recognised leader of Open Standards. Two key Open Standards we currently endorse include OpenVPX (VITA 65) and the Open Component Portability Infrastructure (OpenCPI) Standard. OpenVPX promotes system-level interoperability and modularity, while OpenCPI allows Applications to be deployed across a variety of compliant and compatible OpenCPI SDR platforms, unlocking the full potential of portability.

- We have a proven track record of supporting official UK organisations.
- We continue to invest in open hardware and open software technology.
- We have successfully delivered this academy to several cyber divisions within the armed forces of prominent European nations.
- Feedback from the most recent academy delivery was extremely positive and the customer asked: "What comes next...?"

## Academy Structure

BAE Systems' Open Standards, Cyber over RF Academy offers the following tiered modules:

1. Introduction to Vulnerability Research and Open Standards
2. VHDL and OpenCPI foundations
3. RF Digital Signal Processing engineering
4. Advanced exercises
5. Bespoke

Some modules are classroom led, while others are self-taught with regular SME support. The Academy follows a tiered progression that begins with foundational concepts before expanding students' knowledge and practical experience through a carefully sequenced blend of theory and hands-on activities. The Advanced Exercises module gives students the chance to consolidate, apply and showcase the skills they have acquired, as well as to utilise the necessary tools for developing, analysing and configuring SDR Applications.

The Academy is designed to be adaptable; students may choose a selection of modules or begin at any tier that suits their needs. Customers may also request bespoke modules tailored to particular skill levels or specific topics of interest.

### Academy features:

- The Academy can be delivered locally, remotely or following a hybrid approach.
- The course modules and content are customisable and can be tailored to suit student skill levels and training requirements.
- The modules are delivered and supported by experienced engineers or trainers.
- BAE Systems provides the required training resources.
- BAE Systems offers follow-on support and the opportunity to collaboratively research and develop a project of your choice.



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