

Chapter: Standards Learning Roadmap (SDR-Drone / Tech / Open Standards)

⊘ What You'll Gain by the End

- ✓ Ability to read, interpret, and reference standards in defense, SDR, and technical domains
- ✓ Capability to write or adopt your own standard or spec (MIL-like or open)
- ✓ Familiarity with conformance and certification language
- ✓ Access to global standardization bodies for further engagement or authorship

OVERVIEW

Focus Area	What You'll Learn	Outcomes
	MIL-STDs, environmental, EMI/EMC standards	Defense-compliant specs, test readiness
⊕ Software / Internet	Protocol standards like TCP/IP, HTTP, RFC process	Understand and reference open standards
Open Governance	How standards are made, maintained, and adopted	Create or adopt your own standards

Resource	Link	Certificate?
	ISO Training Portal	∀ Free
	Alison Course	∀ Free
WTO eLearning: Standards and Technical Barriers to Trade	WTO eLearning Portal → Search for <i>TBT</i>	∀ Free
♦ ANSI: Standards 101	ANSI Learn	X (Free read only)

Outcomes:

- · Understand open vs. proprietary standards
- · Learn about ISO, IEC, ANSI, WTO, and national standard bodies
- · Know how standards impact trade, procurement, and testing

Resource	Link	Certificate?
Defense AcquisitionUniversity (DAU): Intro toSpecifications, MIL-STDs	DAU iCatalog → Search for: LOG 103, ENG 101, CLE 068	
NIST Engineering ResourcesTesting	NIST.gov	×

Resource	Link	Certificate?
Q QuickSearch for MIL-STDs (Official access)	DLA ASSIST	
SASTM Compass Training (if access via institution)	ASTM Learning	§ Paid (if standalone)

Suggested Standards to Read:

- MIL-STD-810H (Environmental Testing)
- MIL-STD-461G (EMI/EMC)
- MIL-STD-882E (System Safety)
- ASTM F2910, F3201 (UAV/Drone standards if access granted)

Outcomes:

- · Read, cite, and understand defense specs
- · Know how testing and certification align to procurement
- · Be ready to create SDR compliance specs

Resource	Link	Certificate?
Coursera: "Internet History, Technology, and Security" by Charles Severance	Coursera Course	∀ Free with audit
■ IETF Tutorial: "How to Read and Write RFCs"	IETF Edu + RFC Editor Guide	×
IEEE Xplore Open Access Articles	IEEE Access → Search "Standards Development"	×

Resource	Link	Certificate?
	GitHub Search: "RFC implementation"	×

Outcomes:

- · Understand protocol stack standardization
- Read and trace RFC-based specs
- Write software that follows open protocol standards

Resource	Link	Certificate?
♦ The Open Group: Standards Process & Architecture TOGAF	Open Group Courses	⟨ (Paid)
ii∿ ISO Academy / IEC Academy	ISO Training	
■ Join a Standards Development Org (optional)	IEEE SA, ETSI, IETF	Membership optional

Outcomes:

- · Learn how standards are formally made and adopted
- · Get access to real-world working groups and drafts
- · Begin contributing or referencing standards meaningfully

★ Bonus: Tools & Repositories to Use Alongside

Tool	Purpose	Link
□ PDF/UA Checker	Validate machine-readable tagged docs	PAC 2021
♦ LibreOffice	Author exportable tagged PDFs	LibreOffice
ChatGPT + QuickSearch	Co-develop MIL-specs with AI assistance	You're using it now ✔
■ IEEE DataPort & IETF Datatracker	Access standards + open data	IEEE DataPort / IETF Datatracker