



Security by Design Professional Course

Course Syllabus 2025-26

Course: Security by Design (SbD) - Professional Program

Date: 2025-26

Format: Self-paced, asynchronous with instructor support

Prerequisites: B101 D10S Foundations · B102 TADA Method & Framework

Course Text: Mastering Security by Design (eBook included)

CPE: Up to 40 CPE (B101 12 · B102 12 · SbD-210 8 · SbD-410 8)

CPL Evaluation: Capstone Portfolio (1 attempt included no multiple-choice exams)

Course Description

A practical, non-heavy path to designing defensible systems. Students learn the DARES™ lifecycle (Define · Architect · Realize · Evaluate · Sustain), model with CDMs, document trade-offs with CECs (use CIE when component trust/containment matters), overlay TADA, manage DRM, and make “shippable by default” decisions with simple CI/CD gate policies. Graduates are prepared to submit the Capstone Portfolio for the SbD CPL.

Learning Outcomes

1. Translate business/risk goals into measurable acceptance criteria mapped to D10S.
2. Create CDM views (boundaries, interfaces, failure domains) and place controls appropriately.
3. Record design trade-offs with CECs and apply CIE where containment/trust is critical.
4. Use TADA overlays and DRM logs to produce traceable, testable controls.
5. Integrate lightweight CI/CD guardrails and define a security-inclusive Definition of Done.
6. Communicate executive briefs tying mitigations to risk reduction and D10S.

How you'll demonstrate learning

- Fundamentals (SbD-210): knowledge checks cover outcomes 1–5; optional briefs (value statement, DARES one-pager, Top-3 threats, guardrails, Champion kickoff).
- Advanced (SbD-410): knowledge checks cover outcomes 2–6; optional briefs (pattern governance, ROI/TMC one-pager, scorecard KPIs).
- CPL (included): Capstone Portfolio (Design Review Package) - CDM/CEC set, TADA overlay, DRM log, gate policy draft, V&V evidence, 1-page executive brief.

Materials

- Required: *Mastering Security by Design* (ebook included in the Pro Bundle).
- Tools (suggested): diagramming app, code repo with CI/CD, doc editor for PDFs.

Schedule Overview (self-paced modules)

Suggested pacing: 1–2 weeks per module.

Track	Module	Focus	Assessment
Fundamentals	F1	Why SbD; SDE philosophy; D10S mapping	Knowledge check (KC)
	F2	SbD method + DARES™ overview	KC
	F3	Threats & Threat Modeling (CDMs, STRIDE)	KC
	F4	Agile + Tooling; CI/CD guardrails; Definition of Done	KC
	F5	Champion model; governance basics	KC
Advanced	A1	Implementing DARES™ end-to-end	KC
	A2	Models & Secure Architecture Blueprint (CDM/CEC/CIE)	KC
	A3	ROI/TMC quick math; executive brief	KC
	A4	Leadership & Scorecards; Champion network	KC
	A5	AI & Future; synthesis	KC
CPL (included)	Capstone Portfolio	Single PDF/ZIP: CDM/CEC, TADA, DRM, gate policy, V&V, exec brief	Panel review

Grading & CPE

- Course completion: pass all 10 knowledge checks (brief artifacts are optional).
- CPE: awarded automatically upon course completion, up to 40 CPE total.
- CPL evaluation: Capstone Portfolio review (included 1 attempt); resubmission if needed incurs a fee.

Policies

- Academic integrity: submit your own work; cite sources where used.
- Accessibility: reasonable accommodations available on request.
- Support: Contact an Advisor for prerequisite verification or CPL questions.

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