

Security & Deployment

Take FieldNote from working to production-ready — security, performance, CI/CD, Azure. 35–40% of DP-800.

The gap between “works in dev” and “runs safely in production” is where most engineers get stuck. AIDD-MS-2 closes it — security, performance, source-controlled CI/CD, and Azure integration.

WHAT YOU'LL BE ABLE TO DO

- **Layer real security.** Always Encrypted, RLS, Managed Identity, masking, auditing.
- **Diagnose performance.** Execution plans, DMVs, Query Store, QPI.
- **Manage concurrency.** Isolation levels, blocking, deadlocks.
- **Source-control the schema.** SDK-style SQL Database Projects with PRs.
- **Deploy with CI/CD.** GitHub Actions, OIDC, DACPACs, schema drift.
- **Integrate with Azure.** DAB, Application Insights, Change Tracking, Functions.

PREREQUISITES

AIDD-MS-1 or entry-diagnostic pass · Git fundamentals · basic Azure familiarity · the FieldNote project from MS-1.

DP-800 COVERAGE

Domain 2: Secure, optimize, and deploy database solutions. Weight 35–40% — tied for the largest exam weighting.

HARDEN — FIELDNOTE V2

FieldNote becomes secured with layered controls, source-controlled with CI/CD, deployed to Azure, instrumented, and wired into change-handling infrastructure.

LESSONS	TIME	FORMAT	EXAM
27	~22–28h	Hybrid	Domain 2

Ready to ship code your security team trusts?

Cohort dates and enrollment at doctaco.academy/aidd

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Inside AIDD-MS-2

Module 2A • Data Security & Compliance

7 LESSONS • ~5.5 HOURS

Always Encrypted. Dynamic Data Masking and its limits. Row-Level Security for multi-tenant isolation. Least-privilege permissions. Passwordless access via Managed Identity. Auditing. Securing API, GraphQL, and MCP endpoints.

[Always Encrypted](#) · [RLS](#) · [Managed Identity](#) · [DDM](#) · [Auditing](#)

Module 2B • Performance Optimization

6 LESSONS • ~4.5 HOURS

Configuration. Isolation levels and concurrency trade-offs. Reading execution plans. DMVs. Query Store. Diagnosing blocking and deadlocks. Query Performance Insight in Azure.

[Execution plans](#) · [DMVs](#) · [Query Store](#) · [Isolation](#) · [Deadlocks](#) · [QPI](#)

Module 2C • Source Control & CI/CD

7 LESSONS • ~5.5 HOURS

SDK-style SQL Database Projects. Build, validation, and DACPAC production. Git workflow for database code. Unit and integration testing. Reference data as idempotent scripts. Secrets and schema drift. GitHub Actions with OIDC.

[SQL Database Projects](#) · [DACPACs](#) · [GitHub Actions](#) · [OIDC](#) · [Tests](#) · [Drift](#)

Module 2D • Integrating SQL with Azure Services

7 LESSONS • ~5.5 HOURS

Data API Builder. REST and GraphQL entities — caching, pagination, search, filter. DAB deployment to Azure Container Apps. Azure Monitor, Application Insights, Log Analytics. Change Tracking, CDC, Azure Functions, Logic Apps.

[DAB](#) · [Application Insights](#) · [Change Tracking](#) · [CDC](#) · [Functions](#) · [Logic Apps](#)

Module 2E • Mini-Capstone — Harden FieldNote

10-14 HOURS

Make FieldNote production-ready end-to-end: layered security, a performance audit with before/after evidence, a full CI/CD pipeline, DAB deployment, Application Insights, and a change-driven integration. A 4-6 page design document captures decisions.