

ENTERPRISE PROGRAM BRIEF

Agentic Software Engineering Practitioner

Deliver a reviewed software enhancement using coding agents within repository controls.

VNode ITeS

004

DURATION

48 hours

LEVEL

Practitioner / specialist

FORMAT

Private cohort

AUDIENCE PROFILE

Built for these roles

Developers, Technical leads, Engineering champions

OVERVIEW

Executive overview

Deliver a reviewed software enhancement using coding agents within repository controls. Proposed instructor-led duration; delivery subject to environment and lab validation.

READINESS

Prerequisites

- Can develop and debug an application
- Testing and CI/CD competence
- Software Delivery and DevOps Foundations, or equivalent demonstrable experience

PROGRAM OUTCOMES

Capabilities your teams will gain

- Deliver a bounded repository enhancement using agent assistance
- Detect seeded defects through independent tests and review
- Constrain tools, secrets and untrusted-content effects
- Provide traceable delivery and quality-adjusted productivity evidence

ENTERPRISE CUSTOMIZATION

Enterprise customization

Tailor this program to your organization's priorities: Deliver a reviewed software enhancement using coding agents within repository controls.

- Private cohort scheduling
- Equivalent-experience entry review

CURRICULUM

Curriculum roadmap

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MODULE 1 · 8 HOURS

Repository readiness and task framing

Prepare a sample repository and specify an independently testable enhancement.

- Architecture context
- Repository instructions
- Definition of done
- Bounded tasks

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MODULE 2 · 8 HOURS

Agent-assisted implementation

Implement the enhancement in reviewable increments and inspect generated code.

- Planning
- Context selection
- Incremental changes
- Human checkpoints

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MODULE 3 · 8 HOURS

Tool and MCP integration

Connect a controlled tool and test permission and injection boundaries.

- Trusted tools
- Authentication
- Permissions
- Untrusted content

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MODULE 4 · 8 HOURS

Testing and review

Find and correct a seeded agent-generated defect using independent tests.

- Unit and integration tests
- Independent verification
- Review limitations
- Security checks

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MODULE 5 · 8 HOURS

Delivery and productivity measurement

Deliver through CI and compare effort and quality against a baseline task.

- CI/CD
- Dependencies
- Rollback
- Quality-adjusted productivity

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MODULE 6 · 8 HOURS

Software engineering capstone

Complete an unfamiliar enhancement and defend code, tests and operational impact.

- Change request
- Review
- Regression
- Handover

PREPARATION

Environment prerequisites

Git repository and test application Code editor and supported runtime CI runner and approved test deployment target For O04: licensed coding-agent access, approved model usage and a local mock MCP/API tool Delivery depends on environment and lab validation. This outline does not include step-by-step lab instructions.

CAPSTONE

Capstone

Complete an unfamiliar enhancement and defend code, tests and operational impact. Assessed agent-assisted software delivery Evidence of relevant access, quality and risk controls Demonstration and limitations record

ASSESSMENT

Assessment

Scenario-based practical assessment Deliver a bounded repository enhancement using agent assistance 30% Detect seeded defects through independent tests and review 25% Constrain tools, secrets and untrusted-content effects 25% Provide traceable delivery and quality-adjusted productivity evidence 20% Proposed VNode outline-level assessment; no vendor accreditation or completed lab validation implied.

DELIVERABLES

Participant deliverables

- Assessed agent-assisted software delivery
- Evidence of relevant access, quality and risk controls
- Demonstration and limitations record

SCOPE

Scope boundaries

Step-by-step lab instructions; Runnable solution code; Packaged source datasets; Executed environment validation

DELIVERY

Delivery options

Count teaching hours, not calendar days. Exclude breaks. Split into 4-hour or 8-hour teaching sessions; schedule complex project work in contiguous blocks. Proposed hours exclude breaks and are subject to pilot validation.

PRIVATE DELIVERY

Plan a private cohort for your team

Scope delivery format, role mix, and rollout timeline with our solutions team.

[Plan Private Delivery](#)
[Book advisory call](#)