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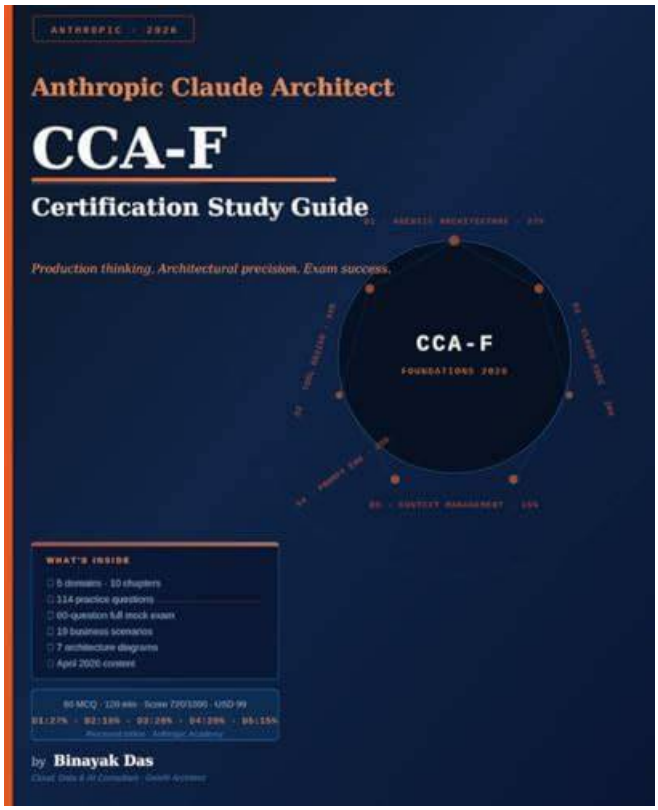

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Anthropic CCDV-F Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Claude Code	3.1%	- Claude Code Configuration and Usage • 1. Use Skills, plugins, and Claude Code capabilities effectively • 2. Use CLAUDE.md and project configuration • 3. Configure settings and development environments
Topic 2: Security and Safety	8.1%	- Secure Application Design • 1. Apply secure-by-design practices to Claude-powered applications • 2. Protect sensitive data and manage access appropriately - Safety and Guardrails • 1. Implement safety controls and guardrails • 2. Use hooks and other mechanisms to enforce application controls

Topic 3: Tools and MCPs	10.6%	- Model Context Protocol • 1. Build and integrate MCP servers • 2. Apply MCP concepts and patterns for connecting models to external capabilities - Tool Development and Integration • 1. Handle tool schemas, invocation, and tool-use results • 2. Design and implement custom tools for Claude applications and agents
Topic 4: Eval, Testing, and Debugging	2.6%	- Evaluation • 1. Design and run evaluations for Claude-powered applications • 2. Interpret evaluation results and improve application quality - Testing and Debugging • 1. Test Claude integrations and agentic systems • 2. Diagnose and debug application, agent, and integration issues
Topic 5: Agents and Workflows	14.7%	- Subagents and Agentic Frameworks • 1. Apply appropriate agentic frameworks and orchestration patterns • 2. Use subagents and coordinate multi-agent workflows - Claude Agent SDK and Agent Loops • 1. Implement and manage custom agent loops • 2. Build and configure agents using the Claude Agent SDK - Agent Architecture and Tradeoffs • 1. Evaluate tradeoffs between agentic approaches and traditional workflows • 2. Select appropriate agent architectures and patterns
Topic 6: Model Selection and Optimization	16.8%	- Performance and Cost Optimization • 1. Use batching and other approaches to improve efficiency • 2. Apply prompt caching and other cost optimization techniques - Model Selection • 1. Select appropriate Claude models for task requirements • 2. Evaluate quality, latency, capability, and cost tradeoffs
Topic 7: Prompt and Context Engineering	11%	- Prompt Engineering • 1. Design prompts appropriate to application requirements • 2. Apply prompting techniques to improve reliability and output quality - Context Engineering • 1. Apply context management strategies for agents and long-running workflows • 2. Manage context windows and application context

Topic 8: Applications and Integration	33.1%	- Claude API and Client SDKs • 1. Integrate applications with the Claude API and supported client SDKs • 2. Construct and process API requests and responses • 3. Implement streaming and handle API errors - Application Development and Integration • 1. Integrate Claude capabilities into existing software systems and workflows • 2. Build and ship production-grade Claude-powered applications • 3. Handle multimodal and structured application inputs and outputs

>> CCDV-F Verified Answers <<

Formal Anthropic CCDV-F Test - Training CCDV-F For Exam

Our company has been engaged in compiling professional CCDV-F exam quiz in this field for more than ten years. Our large amount of investment for annual research and development fuels the invention of the latest CCDV-F study materials, solutions and new technologies so we can better serve our customers and enter new markets. We invent, engineer and deliver the best CCDV-F Guide questions that drive business value, create social value and improve the lives of our customers.

Anthropic Claude Certified Developer-Foundations Sample Questions (Q41-Q46):

NEW QUESTION # 41
Your Claude agent's hooks are currently triggered for every action, which slows down the agent significantly even when actions pose no risk. The team wants to scope hooks more carefully.
How would you scope the hooks?

- A. Disable the agent during peak hours so the hook overhead does not slow the application down during the busiest periods of the day across the application's operation.
- B. Replace hooks with system prompt instructions on the grounds that prompt instructions can produce the same enforcement effect that hooks produce on the agent's actions.
- C. Scope hooks to only the high-risk actions, such as destructive operations or sensitive data access, and remove hooks from low-risk actions to balance safety with performance.
- D. Disable all hooks while the team re-scopes them, treating the period of no hook enforcement as a temporary state during the re-scoping work.

Answer: C

Explanation:
Option A correctly applies selective enforcement. Claude Code hooks can execute automatically at lifecycle events such as PreToolUse, and matchers or conditions can narrow exactly which operations trigger a hook.
Anthropic's hook reference demonstrates this pattern by applying a PreToolUse hook specifically to destructive shell operations rather than indiscriminately processing every command. The documentation notes that if the matcher or conditional expression does not match, the handler is skipped, avoiding unnecessary process-spawn overhead.
That architecture is particularly appropriate for costly or security-sensitive checks. High-risk events- destructive file operations, privileged commands, production changes, or access to sensitive resources-can receive deterministic pre-execution enforcement while routine low-risk actions proceed without additional hook latency.
B creates an avoidable period in which safeguards disappear entirely. C reduces application availability without addressing the actual source of overhead. D is technically weaker because system-prompt instructions influence model behavior but are not equivalent to deterministic lifecycle interception capable of blocking execution.
Therefore, hooks should be scoped using event types, matchers, and conditions according to risk. Relevant Claude Developer topics are Claude Code hooks, agent construction, tool governance, deterministic controls, permission boundaries, safety/performance tradeoffs, and lifecycle interception.

NEW QUESTION # 42
You are designing an agent that processes vendor invoices. The work involves a small number of well- understood steps, but occasionally an invoice arrives in an unexpected format that requires the system to decide between rerouting, requesting clarification, or flagging for human review.
The most appropriate architecture for this system is...

- A. A single large prompt that processes every incoming invoice, both standard and unexpected, in one model call.
- B. A manager agent that delegates each step of standard invoice processing to a dedicated subagent, with a separate subagent handling each unexpected format.
- C. A fully autonomous agent that handles every invoice from start to finish across all formats.
- D. A workflow for the standard path with an agent invoked at the decision point for unexpected formats.

Answer: D

Explanation:
Option D applies the correct hybrid pattern. Anthropic distinguishes workflows-where LLMs and tools execute along predefined code paths-from agents, where the model dynamically determines how to proceed.
Anthropic recommends choosing the simplest architecture that meets the requirement: workflows provide predictability and consistency for well-understood tasks, while agents are valuable where flexible model- driven decisions are necessary.
Standard invoice processing is explicitly described as a small number of known steps. That makes a deterministic workflow the appropriate default because the path can be tested, monitored, and reproduced.
The unexpected-format branch is different: the system must reason among rerouting, requesting clarification, or human escalation. That decision point is where agentic flexibility adds value.
A makes the entire process autonomous even though most steps do not require autonomy, increasing cost, latency, and unpredictability. B introduces multiple specialized agents despite no demonstrated need for that complexity. C collapses deterministic processing and exception handling into one monolithic model call, making validation and debugging harder.
Therefore, D combines workflow predictability with targeted agentic reasoning. Relevant Study Guide topics:
workflows versus agents, routing, exception handling, hybrid agentic architecture, escalation, and complexity minimization.

NEW QUESTION # 43
You are designing an agent that handles a multi-step research task. You want the agent to break the task into smaller pieces, hand each piece to a focused subagent, and consolidate the results.
The agent pattern you would apply is...

- A. A single tool-use loop that includes every tool the agent might need across all subtasks.
- B. A context-window pruning pattern that drops each subtask's content after the agent moves on.
- C. A memory pattern that stores the entire research history in advance, before any subtask begins execution.
- D. An orchestrator and subagent pattern with specialized subagents assigned to each subtask.

Answer: D

Explanation:
The supplied Claude Developer source explicitly marks A . The scenario contains the defining elements of an orchestrator/subagent architecture : decomposition of a larger objective, delegation of independent subtasks to specialized workers, and aggregation of their outputs by a coordinating agent.
This architecture is appropriate when subtasks can be performed with focused context or specialized tools.
Instead of forcing one agent to carry every intermediate detail, the orchestrator can formulate assignments, launch suitable subagents, receive condensed results, identify missing information, and synthesize the final research product. This also enables context isolation and potentially parallel execution.
Anthropic's published multi-agent architecture uses this orchestrator-worker approach for research workloads:
a lead agent decomposes a query, delegates work to specialized subagents, and then integrates their findings.
This is particularly useful where exploration is broad and individual subtasks benefit from independent context windows. The broader model-selection guidance also identifies orchestrator strategies as useful where work can be partitioned among worker models.
B describes storage rather than delegation. C is a context-management technique, not a decomposition pattern.
D centralizes all responsibilities in a single loop.
Relevant Claude Developer topics: Agent Patterns, orchestration, subagents, task decomposition, specialization, delegation, context isolation, and result consolidation .

NEW QUESTION # 44

You are designing an agent that handles a complex claim-processing workflow. Each claim moves through fact extraction, eligibility evaluation, and a decision step. The three subtasks have distinct success criteria, and some claims require iteration between fact extraction and eligibility evaluation before a decision can be reached.
Which agent pattern would you apply?

- A. A graph-based pattern that lets the agent move between subtasks based on the state of each claim, with each subtask evaluated against its own criteria.
- B. A single tool-use loop pattern that gives one agent access to all the tools needed for fact extraction, eligibility evaluation, and decision-making.
- C. A linear chain pattern that processes every claim through fact extraction, then eligibility evaluation, then decision, with no return paths between subtasks.
- D. A streaming pattern that emits partial decisions as the agent processes each claim, refining the output until a final decision emerges from the stream.

Answer: A

Explanation:
A is correct because the workflow is state-dependent, non-linear, and iterative . The source explicitly identifies the graph-based pattern as the intended architecture for this scenario. Each stage-fact extraction, eligibility evaluation, and decision-making-has its own completion criteria, and the process may need to move backward from eligibility evaluation to fact extraction when information is incomplete. A graph representation naturally models these conditional transitions and loops.
Anthropic's current orchestration guidance supports workflows containing branching, loops, filtering, staged execution, and state-dependent control flow , rather than forcing every task through one fixed sequence.
Dynamic workflow orchestration can use explicit control logic so the next processing stage depends on current state and previous results.
B concerns progressive output delivery, not workflow-state transitions. C provides a generic agentic tool loop but does not explicitly model distinct states or transition criteria. D is unsuitable because it prohibits the required return path between extraction and eligibility evaluation.
Therefore, a graph-based architecture provides the necessary conditional routing, iteration, and stage-specific validation.
Relevant Claude Developer topics: Agent Patterns, graph workflows, state transitions, conditional branching, loops, stage-specific success criteria, and agent orchestration .

NEW QUESTION # 45
Your Claude application validates structured output but has been treating validation failures as terminal errors. Each validation failure causes the entire user request to fail. The team wants to handle validation failures more gracefully.
How would you handle the validation failures?

- A. Treat validation failures as a recognized error path that triggers retry, repair, or fallback logic before failing the user request.
- B. Disable output validation until the underlying cause of validation failures has been identified and addressed in a future release.
- C. Pass validation failures directly to downstream systems and let each downstream system decide how to handle the malformed output.
- D. Tell users that validation failures are unavoidable and instruct them to perform manual accuracy checks before relying on outputs.

Answer: A

Explanation:
C converts validation failure from an uncontrolled terminal condition into a first-class recoverable error path . The supplied exam item identifies C as correct. If structured output does not meet the application's contract, it should never be forwarded as though valid, but immediate user-visible failure is also unnecessary when bounded recovery is possible.
A robust flow can retry generation, ask Claude to repair the malformed structure using the validation error as feedback, switch to an approved fallback path, or ultimately return a controlled failure if the retry budget is exhausted. The application must cap these recovery attempts to avoid unbounded loops.
Anthropic's Structured Outputs documentation explains that unconstrained model generation can produce parsing errors, missing fields, inconsistent types, or schema violations that otherwise require error handling and retries. Current Structured Outputs can eliminate many schema-level failures through constrained decoding, although exceptional conditions such as refusal or output truncation still require explicit handling.
A violates the validation boundary. B removes a protective control. D transfers an engineering reliability responsibility to end users.

Relevant Claude Developer topics: Claude App Design, structured output, validation, retries, repair loops, fallback logic, bounded recovery, error paths, and resilient downstream integration .

NEW QUESTION # 46

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