

SKILL

1 CC2.0 VERIFY Function Skill

1.1 Planned Capabilities

1.2 Planned Input/Output

1.3 Implementation Timeline

1.4 References

1 CC2.0 VERIFY Function Skill

Function: VERIFY - Quality Verification & Testing **Category Theory:** Applicative Functor (verification composition) **Purpose:** Verify implementations meet quality standards through automated testing **Status:**  Planned (Phase 2, Weeks 4-6)

1.1 Planned Capabilities

-  **Automated Testing:** Unit, integration, e2e test execution
 -  **Quality Metrics:** Code coverage, complexity, security scans
 -  **Verification Strategies:** Functional, property-based, mutation testing
 -  **Bug Detection:** Static analysis, runtime validation
 -  **Acceptance Criteria:** Pass/fail verdict with evidence
-

1.2 Planned Input/Output

Input (from CREATE):

```
{  
  "implementation": {  
    "code": "...",  
    "tests": "..."  
  },  
  "criteria": {  
    "minCoverage": 0.80,  
    "maxComplexity": 15,  
    "securityScan": true  
  }  
}
```

Output:

```
{  
  "verdict": "pass" | "fail",  
  "evidence": {  
    "coverage": 0.87,  
    "complexity": 12,  
    "securityIssues": []  
  },  
  "confidence": 0.92  
}
```

1.3 Implementation Timeline

Phase 2: Weeks 4-6 (after Foundation Release) **Trigger:** CREATE function stable, real testing needs identified **Estimated Effort:** 4 hours (following established patterns)

1.4 References

- Specification: [~/cc2.0/functions/verify/FUNCTION.md](#)
 - Implementation Plan: [~/cc2.0/PHASE-1-FOUNDATION-SPEC.md](#) (Phase 2 section)
-

Status: Deferred to Phase 2 - Learn from actual usage patterns first