

# Aurora Workflow Orchestration

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## Development DAG v1.0 (Authoritative)

This document defines the canonical dependency graph (DAG) governing all active development work for the Aurora Workflow Orchestration project. It establishes the order of operations, critical path, and phased execution plan required to advance AWO while maintaining architectural coherence, reproducibility, and governance integrity.

This DAG supersedes all previous backlogs and should be treated as the single source of truth for ongoing work.

### 1. Purpose

The purpose of this DAG is to:

- Establish a unified planning surface shared between the human orchestrator and the AWO system.
- Ensure all work proceeds in dependency-correct order.
- Prevent architectural drift, documentation misalignment, and premature standardization.
- Provide a weekly “Monday cycle” mechanism for recalibration and progress tracking.
- Lock the project into a reproducible, standards-grade development rhythm.

This DAG is binding for the current development week and must be reviewed, amended, and versioned on subsequent Mondays.

### 2. Scope

This DAG covers:

- Workflow stabilization
- Architecture specification
- Lifecycle definition
- Standardization (invariants, guardrails, governance model)
- Documentation cleanup
- Governance logging
- Metadata integrity tasks

It does not govern experimental sandboxes or external projects.

### 3. High-Level Overview

AWO is currently in Infrastructure Stabilization Phase, transitioning into Architecture Specification Phase.

- Order:
1. Workflows locked
  2. Architecture defined
  3. Lifecycle extracted
  4. Invariants codified
  5. Governance formalized
  6. Documentation aligned

#### 4. Dependency Graph (DAG)

A1 → A2 → A3

↓

B1

↓

C1

↓

D1 → D2 → D3

↓

E1 → E2 → E3

↓

F1 → F2 → F3

#### 5. Phased Execution Plan

## PHASE A — INFRASTRUCTURE

A1 — Stabilize Workflow

A2 — Test Suite (6 runs)

A3 — Workflow Lock (v4.2)

## PHASE B — ARCHITECTURE

B1 — ARI Architecture Document

## PHASE C — BEHAVIOR

C1 — AWO Run Lifecycle Specification

## PHASE D — STANDARDS

D1 — Invariants Document

D2 — Operational Guardrails Spec

D3 — Governance Model Specification

## PHASE E — DOCUMENTATION CLEANUP

E1 — NTZ Technical Spec

E2 — Governance Summary Revision

E3 — CRI Spec Update

## PHASE F — LOGS & METADATA

F1 — Governance Log Updates

F2 — Metadata Normalization

F3 — Global Checksums

## 6. Critical Path

A1 → A2 → A3 → B1 → C1 → D1 → D3 → E1

## 7. Monday Cycle Rules

Weekly review, metadata version increment, dependency correctness required.

## 8. Acceptance Criteria

Workflow v4.2 locked, Architecture v1.0 drafted, Lifecycle v1.0 drafted, Invariants v1.0 drafted, Governance Model v1.0 drafted, Neurotransparency Spec aligned.

## 9. Glossary

AWO, CRI, NTZ, CPP

## 10. Changelog

v1.0 — Initial version under new collaborative method.