Artifact Edit Requirements Template

Purpose: This template must be used before editing any configuration file, script, or template to ensure proper documentation and rollback capability.

Artifact Documentation Header

Copy and complete this header before making any file edits:

```
## Artifact Edit Requirements

**Edit Date:** [YYYY-MM-DD HH:MM:SS]
**Editor:** [Your Name/Role]
**Change Request:** [Brief description of why this change is needed]

### Artifact Information
- **Owner:** [Who owns/maintains this file]
- **Path:** [Full file path]
- **Purpose:** [What this file does/controls]
- **Consumers:** [What systems/processes use this file]
- **Format:** [File format and syntax requirements]

### Change Details
- **Type:** [CREATE/UPDATE/DELETE]
- **Scope:** [What sections/lines are being changed]
- **Impact:** [What will be affected by this change]

### Acceptance Criteria
- [ ] [Specific test 1 that must pass]
- [ ] [Specific test 2 that must pass]
- [ ] [Specific test 3 that must pass]

### Rollback Procedures
- **Backup Location:** [Where backup is stored]
- **Rollback Command:** [Exact command to restore original]
- **Verification:** [How to verify rollback worked]

### Dependencies
- **Prerequisites:** [What must be in place before this change]
- **Related Files:** [Other files that may need updates]
- **Services to Restart:** [Services that need restart after change]
```

Example Usage

Example 1: SSH Configuration File

```
## Artifact Edit Requirements

**Edit Date:** 2025-09-22 14:30:00
**Editor:** Agent0
**Change Request:** Configure SSH server for secure remote access

### Artifact Information
- **Owner:** agent0 (system administrator)
- **Path:** /etc/ssh/sshd_config
- **Purpose:** SSH server configuration and security settings
- **Consumers:** SSH daemon, remote connections, VS Code Remote-SSH
- **Format:** SSH configuration file format (key value pairs)

### Change Details
- **Type:** UPDATE
- **Scope:** Security settings (PermitRootLogin, PasswordAuthentication, etc.)
- **Impact:** SSH connection behavior and security posture

### Acceptance Criteria
- [ ] SSH service restarts without errors
- [ ] Remote SSH connection still works
- [ ] Security settings applied correctly
- [ ] No authentication lockout

### Rollback Procedures
- **Backup Location:** /etc/ssh/sshd_config.backup
- **Rollback Command:** `sudo cp /etc/ssh/sshd_config.backup /etc/ssh/sshd_config && sudo systemctl restart ssh`
- **Verification:** `sudo systemctl status ssh` shows active, SSH connection works

### Dependencies
- **Prerequisites:** SSH server installed and running
- **Related Files:** ~/.ssh/authorized_keys, ~/.ssh/config
- **Services to Restart:** ssh (sshd)
```

Example 2: Hosts File Update

```
## Artifact Edit Requirements

**Edit Date:** 2025-09-22 15:45:00
**Editor:** Agent0
**Change Request:** Add HX-Infrastructure domain entries for training environment

### Artifact Information
- **Owner:** agent0 (system administrator)
- **Path:** /etc/hosts (Ubuntu) / C:\Windows\System32\drivers\etc\hosts (Windows)
- **Purpose:** Local DNS resolution for HX-Infrastructure domains
- **Consumers:** System DNS resolver, applications, browsers, training tools
- **Format:** Standard hosts file format (IP hostname [aliases])

### Change Details
- **Type:** UPDATE (append entries)
- **Scope:** Add HX-Infrastructure section with training domains
- **Impact:** Local DNS resolution for dev-test.hana-x.ai and subdomains

### Acceptance Criteria
- [ ] nslookup dev-test.hana-x.ai resolves to correct IP
- [ ] ping dev-test.hana-x.ai works (if server responds)
- [ ] No conflicts with existing entries
- [ ] Proper formatting maintained

### Rollback Procedures
- **Backup Location:** /etc/hosts.backup (Ubuntu) / hosts.backup (Windows)
- **Rollback Command:** `sudo cp /etc/hosts.backup /etc/hosts` (Ubuntu) / `Copy-Item
hosts.backup C:\Windows\System32\drivers\etc\hosts` (Windows)
- **Verification:** Use `getent hosts dev-test.hana-x.ai` (Ubuntu) or `ping -n 1 dev-
test.hana-x.ai` (Windows). Note: when appending on Windows, use `-Encoding ASCII` to
avoid corrupting the hosts file.

### Dependencies
- **Prerequisites:** Admin/sudo access to edit hosts file
- **Related Files:** DNS configuration files
- **Services to Restart:** systemd-resolved (Ubuntu) / DNS Client (Windows)
```

Mandatory Usage Guidelines

When to Use This Template

ALWAYS use this template before:
- Editing configuration files (/etc/ssh/sshd_config, /etc/hosts, etc.)
- Creating or modifying scripts
- Updating application configuration files
- Making changes to system service files
- Modifying environment files (.bashrc, .profile, etc.)

Documentation Requirements

1. **Complete ALL sections** - No empty fields allowed

2. **Specific acceptance criteria** - Must be testable/verifiable

3. **Exact rollback commands** - Copy-paste ready

4. **Backup before edit** - Always create backup first

5. **Test after edit** - Run all acceptance criteria

Integration with Verification Workflow

This template integrates with the Do → Verify → Log pattern:

1. **Before Do:** Complete this template
2. **During Do:** Follow the documented change plan
3. **During Verify:** Use the acceptance criteria
4. **During Log:** Reference this documentation in ENV_READINESS.md

File Naming Convention

Save artifact documentation as:
- `[filename]_edit_[YYYYMMDD_HHMMSS].md`
- Example: `sshd_config_edit_20250922_143000.md`

Storage Location

Store artifact documentation in:
- `~/training/documentation/artifact_edits/`
- Organize by date and component

Quality Checklist

Before making any file edit, verify:

- [ ] Artifact header template completed
- [ ] Backup created and verified
- [ ] Acceptance criteria defined and testable
- [ ] Rollback procedure documented and tested
- [ ] Dependencies identified and addressed
- [ ] Change impact assessed
- [ ] Documentation stored in proper location

This template ensures systematic, documented, and reversible file modifications with proper change management practices.