# Configuration Audits

## 🔹 Definition

**# Source**: **Chatgpt (GPT-5-Standard) at [8/18/2025]**

A **Configuration Audit** is a formal review conducted to **verify that a configuration item (CI) and its versions conform** to their specified requirements, standards, and documentation.

👉 It ensures that:

* The **right product** is built.
* The **product is built right**.

## **🔑 Objectives of Configuration Audits**

**# Source**: **Chatgpt (GPT-5-Standard) at [8/18/2025]**

1. Ensure that CIs are **complete, consistent, and correct**.
2. Verify that all changes were properly **implemented and documented**.
3. Confirm that the product is **ready for release or deployment**.
4. Provide assurance to stakeholders that the system is under **proper control**.

## **📂 Types of Configuration Audits**

**# Source**: **Chatgpt (GPT-5-Standard) at [8/18/2025]**

1. **Functional Configuration Audit (FCA)**
   * Checks whether the CI meets its **functional requirements**.
   * Example: Does the "Payment Module" process transactions correctly as per the requirement document?
2. **Physical Configuration Audit (PCA)**
   * Verifies that the CI’s **physical representation** (documents, code, design) matches the baseline.
   * Example: Does the final code, test cases, and user manual reflect the approved version?

## **📘 Activities in Configuration Audits**

**# Source**: **Chatgpt (GPT-5-Standard) at [8/18/2025]**

* Review CI records (requirements, design, test cases, code).
* Check consistency between documentation and the actual product.
* Verify approvals of changes (change control compliance).
* Ensure traceability between requirements → design → code → tests.
* Report findings and recommend corrective actions.

## **📊 Example**

**# Source**: **Chatgpt (GPT-5-Standard) at [8/18/2025]**

Suppose a project team wants to release **Version 3.0** of their e-commerce app.

A **Configuration Audit** would check:

* Does **Requirement Spec v3.0** match implemented features?
* Are all **approved changes** included and tested?
* Do **Test Results** confirm requirement coverage?
* Do documents (user manual, design docs) match the released software?

If everything aligns → ✅ Release approved.  
 If gaps found → ❌ Fix before release.

## **🎯 Why Important?**

**# Source**: **Chatgpt (GPT-5-Standard) at [8/18/2025]**

* Prevents incomplete or wrong versions from being released.
* Increases stakeholder confidence.
* Supports compliance (ISO, CMMI, regulatory audits).
* Ensures **product integrity and traceability**.

✅ **In short:** **Configuration Audits** = a **formal review process** to check that all configuration items are **accurate, consistent, and compliant** before release.