# Defect Closure

## 🔹 Definition

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

**Defect Closure** is the final stage in the **Defect Life Cycle**, where a defect is marked as **closed** after being fixed, retested, and verified as resolved by the testing team.

It means:

* The defect is **no longer reproducible**.
* The fix works as expected.
* No further action is needed.

## ⚙️ Steps in Defect Closure

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

1. **Defect is Fixed** → Developer applies a fix and releases a new build.
2. **Retesting** → Tester retests the defect to confirm the fix works.
3. **Regression Testing** → Optional, to ensure fix didn’t break other parts.
4. **Verification** → Test lead or QA confirms defect resolution.
5. **Closure** → Defect is marked as **Closed** in the tracking tool (e.g., JIRA, Bugzilla).

## 📝 Example

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

* **Defect Logged:** Checkout page crashes on clicking "Pay Now."
* **Developer Fix:** Corrected the null pointer issue.
* **Retesting:** Tester re-checks → Page works fine.
* **Regression:** Other payment flows also work.
* **Defect Status:** Changed to **Closed**.

## 🎯 Purpose of Defect Closure

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

* Ensure **resolved defects are not left open** in the system.
* Provide **accurate defect status reports**.
* Maintain **clean documentation** for future audits and learning.

## **🔑 Key Notes**

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

* Only the **tester/QA team** (not developers) should close defects, to ensure independence.
* If the issue is **still present** → defect is **Reopened**, not closed.
* Closed defects become part of the **project’s defect history**.

👉 In short: **Defect Closure = Officially marking a defect as resolved and finished after successful retesting and verification.**