

## OpsPilot

# MOC Module — User Manual

Management of Change · AI Engineering Co-Pilot



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**What this guide covers** — what Management of Change is, how the OpsPilot module runs a change through a disciplined assessment and approval workflow, what to have ready, and the document you receive.

## 1. What is Management of Change?

Management of Change (MOC) is the disciplined process for assessing and approving any change to a plant — equipment, process, procedure or organisation — before it is made. Its whole reason for existing is that changes which skip this process cause incidents: a removed protection, an unreviewed substitution, a “small” modification with a hazard nobody thought about.

The cost of skipping MOC is not abstract. In the RCA worked example elsewhere in this library, Pump P-101's catastrophic seal failure traced back to a 2024 change that *removed minimum-flow protection without a hazard review* — exactly the failure MOC exists to prevent.

## 2. What the OpsPilot module does

Role	Responsibility
 <b>AI Coach (OpsPilot)</b>	Classifies the change correctly, identifies every hazard the change introduces, checks impacts across nine categories, and confirms the right approval authority is engaged. It treats classification seriously — a major change dressed as minor is how protections get removed quietly.
 <b>Change Initiator / Engineer (you)</b>	Know what is being changed, why, and what the plant looks like now. You validate the hazard and impact assessment against your specific plant context.

## 3. How it works — the guided process

#	Stage	What happens
1	Change description & type	What is changing, and whether it is temporary or permanent.
2	Classification	Like-for-like / Minor / Major — which sets the rigour required.
3	Risk assessment	The new hazards the change introduces.
4	Impact assessment	Checked across nine categories (safety, environment, operations, documentation and more).

#	Stage	What happens
5	Approval authority	Confirms the correct sign-off authority for the classification.
6	Implementation & rollback	The plan to implement, and the plan to reverse if it goes wrong.
7	Close-out	All documents updated and all training delivered before the change is closed.
8	Generate	Unlocks the Word MOC document.

## 4. What you will be asked — have this ready

- A precise description of the change and exactly what will be different afterwards.
- Whether it is temporary or permanent, and why the change is needed.
- What the plant looks like now — the systems, equipment and procedures the change touches.
- The documents, drawings and training that will need updating to close it out.

**Tip** — classify honestly. The temptation to call a major change “minor” to avoid the paperwork is precisely the behaviour that causes incidents.

## 5. What you receive — the output

A complete Management of Change document (Word) containing:

- Change description, type and classification.
- Risk assessment of the hazards introduced.
- Impact assessment across the nine categories.
- Approval authority and sign-off.
- Implementation plan with rollback, and the close-out checklist of documents and training.

## 6. Worked example (illustrative)

A site wants to remove a recirculation line that “never seems to be used.” Run through MOC, the change classifies as Major because it removes a protective function. The risk assessment surfaces the hazard: without recirculation, the pump can run below minimum flow and dry-run its seal. The impact assessment flags that a low-flow trip would need to be configured, the P&ID and SOP updated, and operators retrained. Approval escalates accordingly. The rollback is simple — leave the line in. That is the entire incident in the P-101 example, caught on paper before it happened instead of investigated afterwards.

## 7. Getting the best result

- **Classify by consequence, not convenience.** If it removes or alters a protection, it's probably Major.
- **Check all nine impact categories.** The hazard you miss is usually the one outside your discipline.
- **Always plan the rollback.** Knowing how to reverse a change is part of approving it.

- **Close it out fully.** A change isn't done until the drawings and training catch up.

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