WHS DOCUMENTS & TEMPLATES

DOC-ISO-CCV · Hazardous Energy Isolation Critical Control Verification Pack

Product Overview

For: Businesses that maintain, clean or repair plant: WHS advisers, maintenance managers, supervisors and control owners

Version 1.0 · 15 November 2026

Field-ready Critical Control Verification forms for hazardous energy isolation: one for each of the 7 critical controls that stop a uncontrolled release of hazardous energy while people work on plant, or limit the harm when it happens, with the bowtie, a verification schedule and a short guide.

Most workplaces have controls for hazardous energy isolation: isolation points, personal locks and tags, bleed valves, blocks and test-before-touch. The question is whether they are working today. A critical control verification (CCV) is the proof: a planned check, in the field, that a control that matters most is in place, in good condition, working as designed, used properly and not bypassed.

This pack gives you one CCV form for each of 7 critical controls (6 preventing, 1 mitigating) for the unwanted event: uncontrolled release of hazardous energy during work on plant. Each form shows where the control sits on the bowtie, what it must achieve, how it fails, and a checklist scored Pass, Fail or Non-conformance. Physical controls are Pass or Fail only; Non-conformance is kept for administrative items such as records and training dates. A Fail stops the work and is escalated as a high potential incident. The last page of each form has prompts for talking to the operators, workers and supervisors who use the control.

The full bowtie shows every control on one page, the schedule sets who verifies each one and how often, and the guide explains the method. Every form is editable, so you can adapt it to your site. Made by Orana Skills Centre.

SAMPLE

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How to Use These CCVs

Hazardous Energy Isolation Critical Control Verification Pack

What a critical control verification is

The key word here is proof. Not assumption, not guesswork. A critical control verification (CCV) is a planned check, in the field, that one critical control is doing its job. It checks that the control:

- Exist
- Are in place and in good condition
- Are functioning as designed
- Are being used properly
- Are not being bypassed or failing silently

Each CCV form tests one control against its performance requirements, item by item, grouped by those five checks and then the records. It is not a general inspection, an audit, or a maintenance check: keep those, and use the CCVs alongside them for the few controls that matter most.

The bowtie and the critical controls in this pack

Hazard: Plant and systems holding hazardous energy. Unwanted event: Uncontrolled release of hazardous energy during work on plant. Any maintenance, cleaning, repair, set-up, unblocking or inspection of plant, machinery, process systems or electrical equipment that holds electrical, mechanical, hydraulic, pneumatic, thermal, chemical, gravitational or stored energy.

CCV	Critical control	Type	Sits on	At your site
CCV-01	Every energy source identified and isolated at its isolation point	Preventing	T1	Use at every site where the threat or consequence is present.
CCV-02	Personal lock and tag on every isolation point, by every person working	Preventing	T2, T4	Kept separate from CCV-01: it is checked by counting people and locks during the job, often by a different person from the isolator.
CCV-03	Stored and residual energy released or restrained	Preventing	T3	Use at every site where the threat or consequence is present.
CCV-04	Zero energy proved before work starts	Preventing	T1, T3	Kept separate from CCV-01 (the owner's rule): the test is done at a different time, after isolation and before the work, and is checked by watching it.
CCV-05	Controlled removal of isolation and return to service	Preventing	T4	Use at every site where the threat or consequence is present.
CCV-06	No work on running or live plant without an approved safe method	Preventing	T5	List the tasks your plant really needs done with energy on, and the approved method for each.
CCV-07	Emergency response for crush, entrapment and electric shock	Mitigating	C1, C2	Use at every site where the threat or consequence is present.

Mitigating controls can be critical too, especially when they are the last line of defence. They are just as critical as prevention, and must be resourced, practised and verified.

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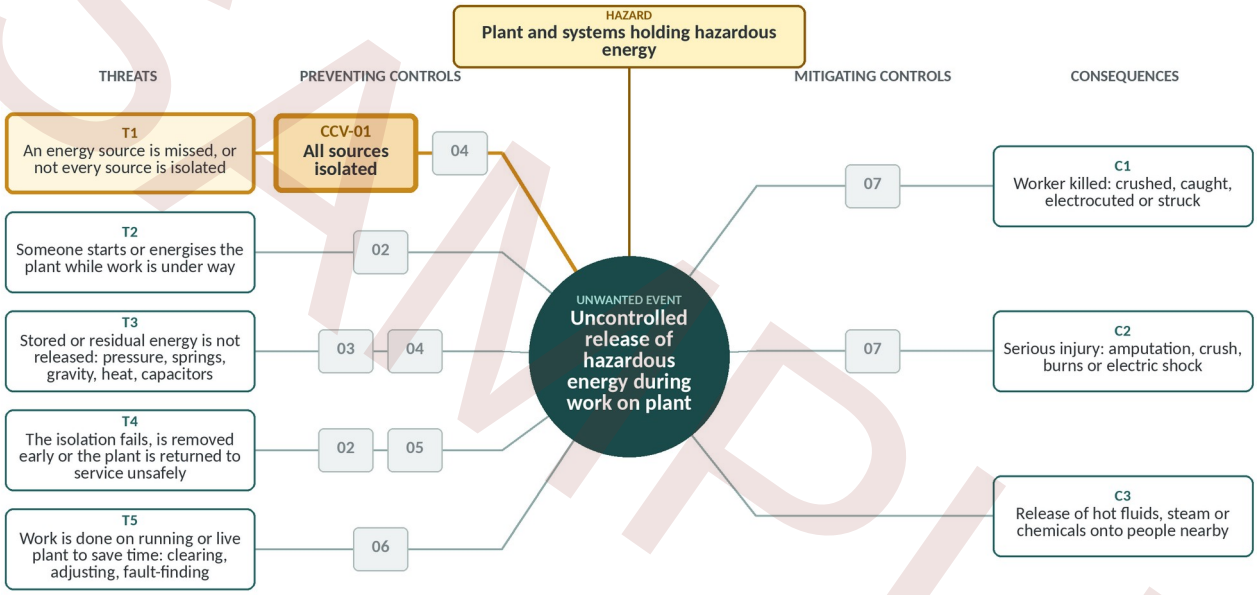
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CCV-01 Every energy source identified and isolated at its isolation point

Critical Control Verification · Preventing control · Hazardous energy isolation

Site or location		**Plant or area verified**	
Date and time		**Shift**	
Verified by (name and role)		**Control owner**	

1 Where this control sits on the bowtie



Amber: this control, CCV-01, on threat line T1. Grey numbers: the other critical controls in this pack. Preventing controls sit left of the unwanted event and stop it happening; mitigating controls sit right of it and limit the harm.

2 The control

Control	Every energy source identified and isolated at its isolation point
Type	Preventing: it stops the unwanted event happening.
It sits on	Threat T1: An energy source is missed, or not every source is isolated
Hierarchy of control	Isolation
Objective	Before anyone works on plant, identify every energy source that could move, energise or release, and isolate each one at a proper isolation point, not at a control switch, stop button or interlock.
Why it is critical	A missed second drive, a backup supply, a gravity-fed line or a pneumatic feed is enough to kill. A stop button or an interlock is not an isolation: it can be reset, fail or be overridden. Isolation at the right point is what makes the plant safe to touch.

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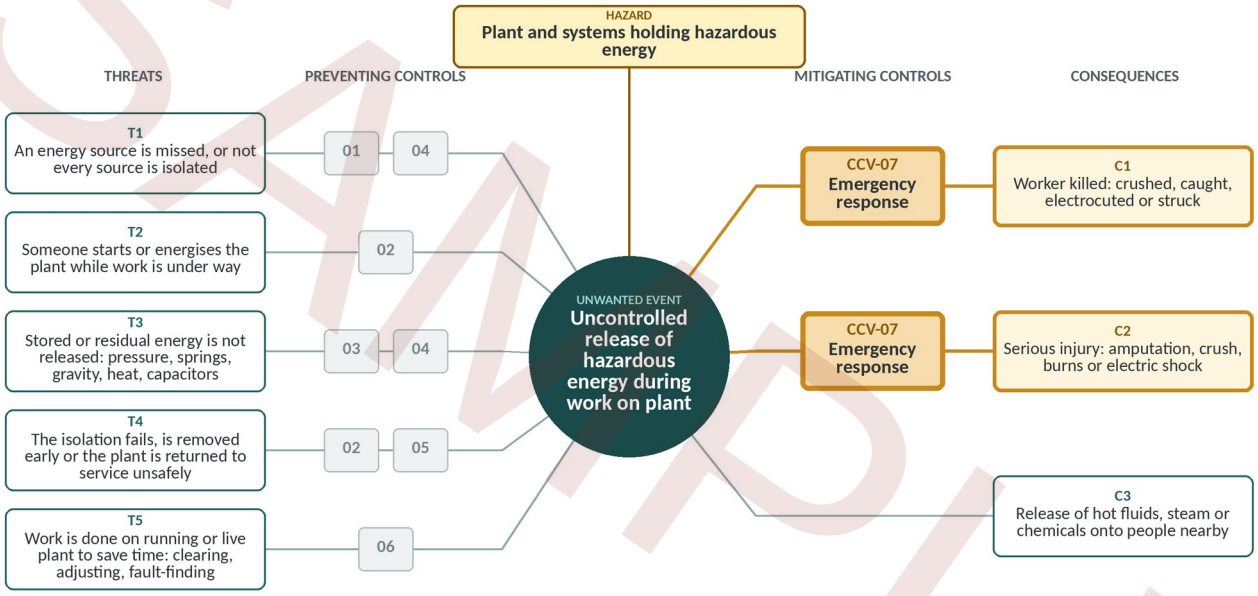
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CCV-07 Emergency response for crush, entrapment and electric shock

Critical Control Verification · Mitigating control · Hazardous energy isolation

Site or location		**Plant or area verified**	
Date and time		**Shift**	
Verified by (name and role)		**Control owner**	

1 Where this control sits on the bowtie



Amber: this control, CCV-07, on consequence lines C1 and C2. Grey numbers: the other critical controls in this pack. Preventing controls sit left of the unwanted event and stop it happening; mitigating controls sit right of it and limit the harm.

2 The control

Control	Emergency response for crush, entrapment and electric shock
Type	Mitigating: it limits the harm once the unwanted event has happened.
It sits on	Consequence C1: Worker killed: crushed, caught, electrocuted or struck; consequence C2: Serious injury: amputation, crush, burns or electric shock
Hierarchy of control	Administrative
Objective	If someone is caught, crushed or shocked, stop the plant, make it safe, free them without creating a second victim, and get first aid, a defibrillator and an ambulance to them fast.
Why it is critical	Bleeding from an amputation or crush, and cardiac arrest after an electric shock, can kill within minutes. A fast, practised response, including safe release from the energy source, decides whether a serious injury becomes a death.

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END OF THE FREE SAMPLE

This sample shows a few pages, so you can judge the layout and the quality. Field-ready Critical Control Verification forms for hazardous energy isolation: one for each of the 7 critical controls that stop a uncontrolled release of hazardous energy while people work on plant, or limit the harm when it happens, with the bowtie, a verification schedule and a short guide.

What the full product contains

- **7 Critical Control Verification forms, one per critical control (6 preventing, 1 mitigating): each with its bowtie, objective, performance requirements, failure modes, a Pass / Fail / Non-conformance checklist, the overall result, actions, a page of prompts for talking to the people who use the control, and sign-off**
  03_CCV_FORMS/ (Word and PDF)
- **The critical controls: CCV-01 All sources isolated (preventing); CCV-02 Personal locks applied (preventing); CCV-03 Stored energy released (preventing); CCV-04 Zero energy proved (preventing); CCV-05 Controlled de-isolation (preventing); CCV-06 No work on running plant (preventing); CCV-07 Emergency response (mitigating)**
  03_CCV_FORMS/CCV-01 to CCV-07
- **The full bowtie for hazardous energy isolation on one page: every threat, consequence and critical control**
  02_BOWTIE/Hazardous Energy Isolation Bowtie.docx and .pdf
- **The CCV schedule: who verifies each control, how often by exposure, the method and the record**
  04_CCV_SCHEDULE/CCV Schedule.docx and .pdf
- **The CCV schedule workbook: suggested frequency by exposure, next due dates and status by formula, dropdowns, no macros**
  04_CCV_SCHEDULE/CCV Schedule.xlsx
- **How to use these CCVs: the method, scoring, the response to a Fail or Non-conformance, frequency, and adapting the set to your site**
  01_START_HERE/How to Use These CCVs.docx and .pdf
- **Read Me First, Product Overview, Permitted Use Terms and Version Information**
  01_START_HERE/ (PDF)

Formats

- Word (.docx), editable, with your logo and business name in the header
- Excel (.xlsx), editable, with dropdowns and formulas (no macros)
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