WHS DOCUMENTS & TEMPLATES

DOC-SEP-CCV · Stored Energy and Pressure Critical Control Verification Pack

Product Overview

For: Businesses with tyres, hydraulics or compressed air: WHS advisers, workshop and fleet managers, supervisors and control owners

Version 1.0 · 15 November 2026

SAMPLE

Field-ready Critical Control Verification forms for stored energy and pressure: one for each of the 6 critical controls that stop a sudden release of stored energy or pressure, or limit the harm when it happens, with the bowtie, a verification schedule and a short guide.

Most workplaces have controls for stored energy and pressure: tyre cages, remote inflation, valve core removal, props and stands, whip checks and relief valves. 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 6 critical controls (4 preventing, 2 mitigating) for the unwanted event: sudden release of stored energy or pressure. 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.

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How to Use These CCVs

Stored Energy and Pressure 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: Tyres, compressed air, hydraulics and pressure vessels. Unwanted event: Sudden release of stored energy or pressure. Tyre and rim work on vehicles and mobile plant, compressed air systems and hoses, hydraulic systems and raised components, air receivers, pressure vessels and gas cylinders, in workshops, depots and in the field.

CCV	Critical control	Type	Sits on	At your site
CCV-01	Tyres inflated in a safety cage or by remote inflation, with nobody in the trajectory	Mitigating	C1, C2	Use at every site where the threat or consequence is present.
CCV-02	Tyre deflated, and rim checked, before demounting or rim work	Preventing	T1, T5	Use at every site where the threat or consequence is present.
CCV-03	Hydraulic pressure released and raised parts mechanically supported before work	Preventing	T2, T5	Use at every site where the threat or consequence is present.
CCV-04	Hoses and fittings rated, inspected and restrained	Preventing	T2, T3	Use at every site where the threat or consequence is present.
CCV-05	Air receivers and pressure vessels protected and inspected	Preventing	T4	Use where air receivers, pressure vessels or gas cylinders are used. Registration rules differ: check with your regulator.
CCV-06	Emergency response for blast, crush and injection injuries	Mitigating	C2, C3	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.

Before you verify: adapt the pack

Step	What to do
1	Check the bowtie against your site: the threats, the consequences and the critical controls. Change it where it does not match, and keep the forms in step with it.

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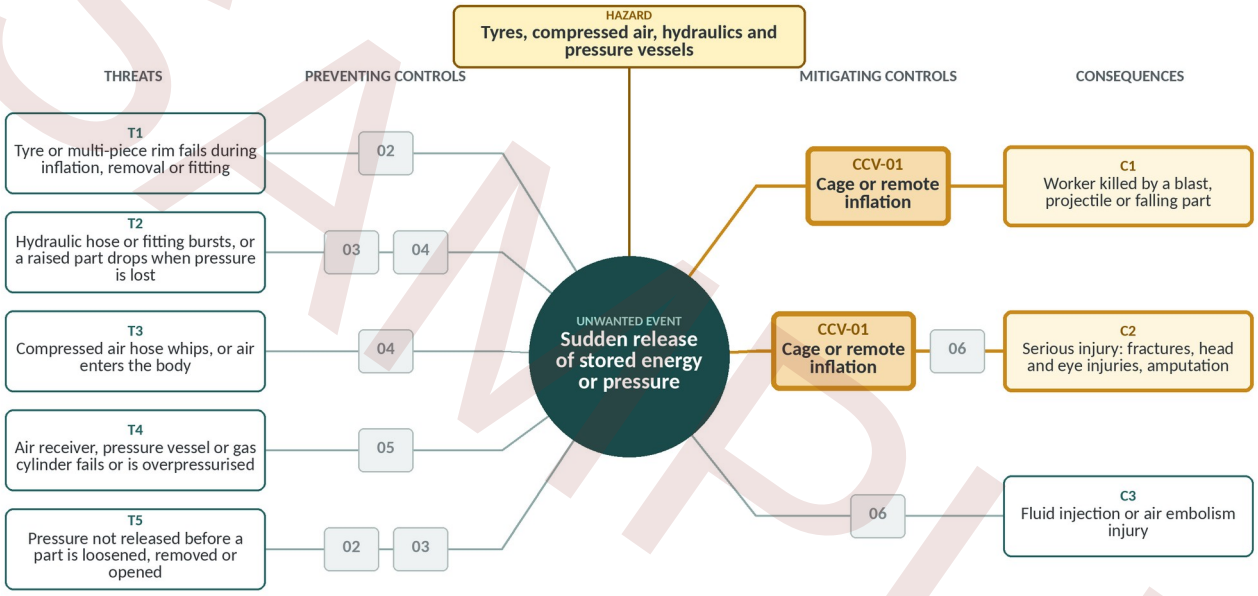
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CCV-01 Tyres inflated in a safety cage or by remote inflation, with nobody in the trajectory

Critical Control Verification · Mitigating control · Stored energy and pressure

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 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	Tyres inflated in a safety cage or by remote inflation, with nobody in the trajectory
Type	Mitigating: it limits the harm once the unwanted event has happened.
It sits on	Consequence C1: Worker killed by a blast, projectile or falling part; consequence C2: Serious injury: fractures, head and eye injuries, amputation
Hierarchy of control	Isolation and Engineering
Objective	If a tyre or rim fails during inflation, contain the blast and keep people out of its path: inflate in a tyre cage rated for the tyre, or by remote inflation with a clip-on chuck and in-line gauge, standing outside the trajectory.
Why it is critical	A tyre explosion or a rim separation releases enormous energy. Lock rings and rim parts fly out with enough force to kill. The cage and remote inflation do not stop the failure; they stop it reaching a person.

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[Company name]

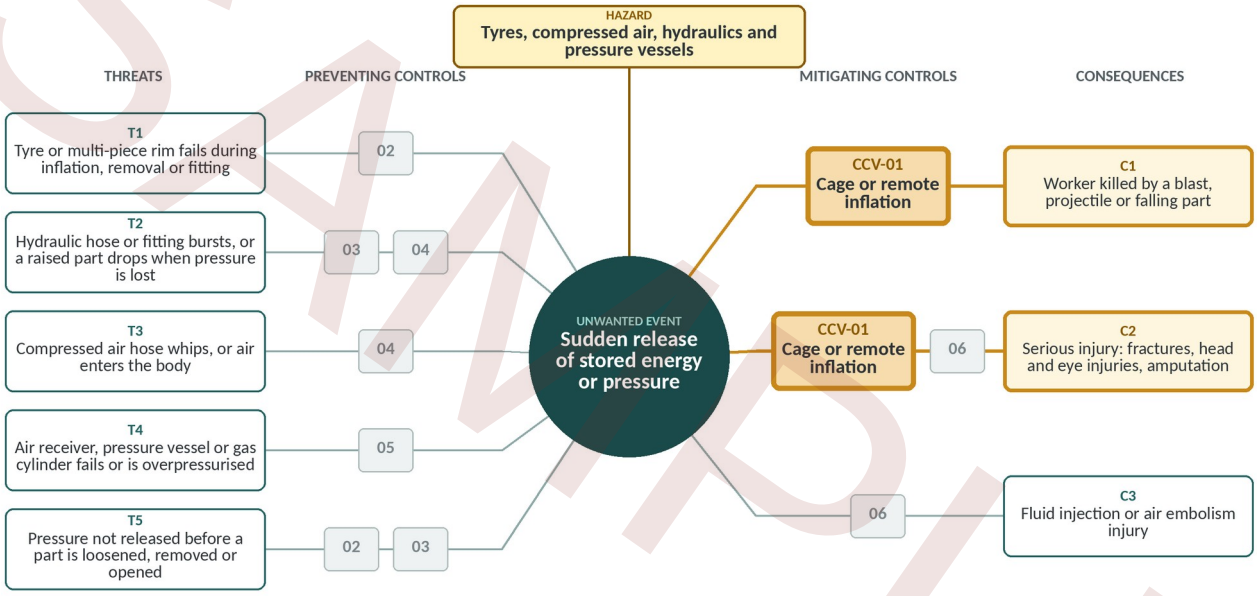
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END OF THE FREE SAMPLE

This sample shows a few pages, so you can judge the layout and the quality. Field-ready Critical Control Verification forms for stored energy and pressure: one for each of the 6 critical controls that stop a sudden release of stored energy or pressure, or limit the harm when it happens, with the bowtie, a verification schedule and a short guide.

What the full product contains

- **6 Critical Control Verification forms, one per critical control (4 preventing, 2 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 Cage or remote inflation (mitigating); CCV-02 Deflate before rim work (preventing); CCV-03 Hydraulics released, propped (preventing); CCV-04 Hoses rated and restrained (preventing); CCV-05 Pressure vessels sound (preventing); CCV-06 Emergency response (mitigating)**
  03_CCV_FORMS/CCV-01 to CCV-06
- **The full bowtie for stored energy and pressure on one page: every threat, consequence and critical control**
  02_BOWTIE/Stored Energy and Pressure 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
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