WHS DOCUMENTS & TEMPLATES

DOC-VPI-CCV · Vehicle and Pedestrian Interaction Critical Control Verification Pack

Product Overview

For: Businesses where mobile plant operates near people: WHS advisers, operations managers, supervisors and control owners

Version 1.0 · 15 November 2026

Field-ready Critical Control Verification forms for vehicle and pedestrian interaction: one for each of the 8 critical controls that stop a pedestrian being struck or crushed by mobile plant, or limit the harm when it happens, with the bowtie, a verification schedule and a short guide.

Most workplaces have controls for vehicle and pedestrian interaction: barriers, crossings, speed limits, cameras and spotters. 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 8 critical controls (6 preventing, 1 preventing and mitigating, 1 mitigating) for the unwanted event: pedestrian struck or crushed by mobile 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.

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How to Use These CCVs

Vehicle and Pedestrian Interaction 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: Mobile plant operating around people. Unwanted event: Pedestrian struck or crushed by mobile plant. Any workplace where mobile plant (forklifts, loaders, telehandlers, trucks, utility vehicles, earthmoving plant, order pickers) operates where people may be on foot: warehouses, yards, loading docks, depots, sites and car parks.

CCV	Critical control	Type	Sits on	At your site
CCV-01	Physical separation of people and mobile plant	Preventing	T1	Use at every site where the threat or consequence is present.
CCV-02	Designated plant routes and controlled crossing points	Preventing	T1	Kept separate from CCV-01 (the owner's rule): separation is checked on a walk of the barriers and gates, crossings by watching them at busy times. Drop it only if your site has no crossings.
CCV-03	Only authorised, competent and fit operators	Preventing	T3	Competency and authorisation support the controls. Keep this CCV if your site enforces authorisation with keys or access control.
CCV-04	Plant in safe working order, including visibility aids	Preventing	T2, T4	Use at every site where the threat or consequence is present.
CCV-05	Proximity detection system (where fitted)	Preventing	T2	Use only where a system is fitted and the risk assessment relies on it. Where it is an extra warning only, verify it as an ordinary control.
CCV-06	Controlled approach when people must work near operating plant	Preventing	T5	Use at every site where the threat or consequence is present.
CCV-07	Low speed in shared areas	Preventing and mitigating	T1, T2 (preventing); C1, C2 (mitigating)	Works on both sides (the owner's decision): on T1 and T2 it gives the operator and the person on foot time to see each other and stop; on C1 and C2 it limits the impact. The checklist tests both roles: verify them on the same visit.
CCV-08	Emergency response and first aid for crush injuries	Mitigating	C1, C2	Use at every site where the threat or consequence is present.

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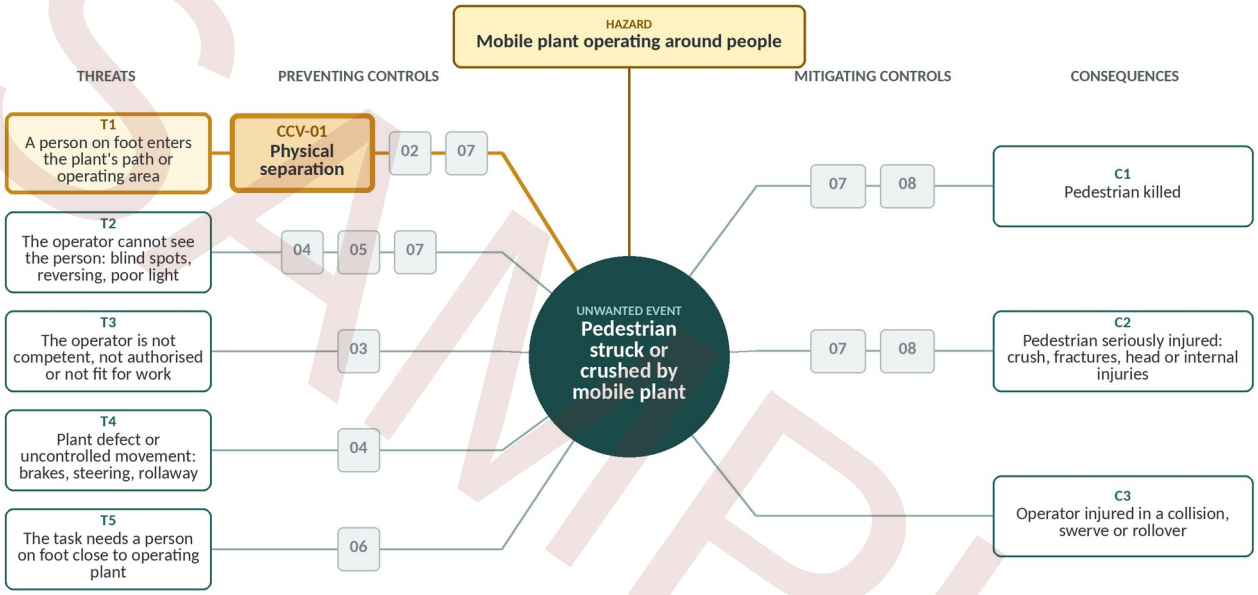
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CCV-01 Physical separation of people and mobile plant

Critical Control Verification · Preventing control · Vehicle and pedestrian interaction

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	Physical separation of people and mobile plant
Type	Preventing: it stops the unwanted event happening.
It sits on	Threat T1: A person on foot enters the plant's path or operating area
Hierarchy of control	Isolation
Objective	Keep people on foot physically apart from operating mobile plant, with barriers, fences, bollards, gates and exclusion zones, so a person cannot walk into the plant's path.
Why it is critical	Where people and plant share space, separation is the barrier that does not rely on anyone paying attention. If a section is missing or a gate is open, the next person through is exposed to moving plant at once, and no other control reliably stops the strike in time.

3 Performance requirements

What the control must achieve. The checklist in part 5 tests each one.

No.	The control must meet this requirement
R1	Fixed barriers, fences or bollards separate walkways and pedestrian work areas from plant routes wherever the traffic management plan requires them.
R2	An exclusion zone around each item of operating plant is defined for each area, marked or barricaded, and kept clear of people on foot.

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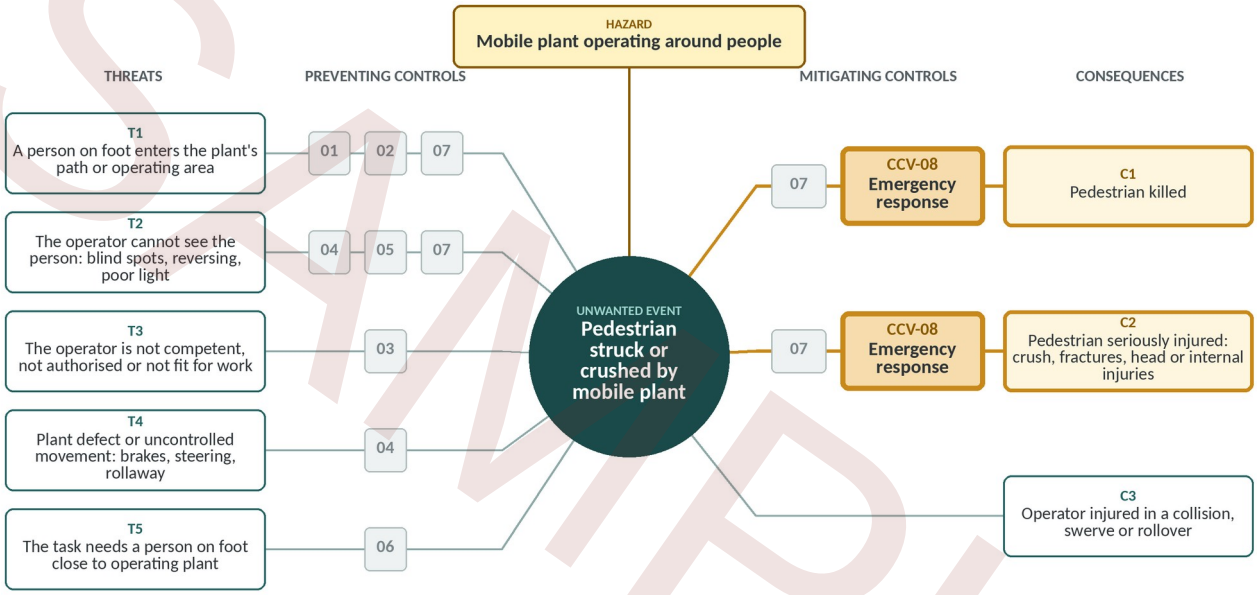
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CCV-08 Emergency response and first aid for crush injuries

Critical Control Verification · Mitigating control · Vehicle and pedestrian interaction

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-08, 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 and first aid for crush injuries
Type	Mitigating: it limits the harm once the unwanted event has happened.
It sits on	Consequence C1: Pedestrian killed; consequence C2: Pedestrian seriously injured: crush, fractures, head or internal injuries
Hierarchy of control	Administrative
Objective	If a person is struck or crushed, get trained help, the right equipment and an ambulance to them fast, so a survivable injury does not become a death.
Why it is critical	Crush injuries and heavy bleeding can kill within minutes. Once the strike has happened, a fast, practised response is the last control between a serious injury and a fatality, most of all where an ambulance is far away.

3 Performance requirements

What the control must achieve. The checklist in part 5 tests each one.

No.	The control must meet this requirement
R1	A trained first aider is on site and can be reached on every shift when plant operates.
R2	First aid kits suited to crush and bleeding injuries, including a trauma kit where the risk assessment calls for one, are near plant areas, unlocked and stocked.

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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 vehicle and pedestrian interaction: one for each of the 8 critical controls that stop a pedestrian being struck or crushed by mobile plant, or limit the harm when it happens, with the bowtie, a verification schedule and a short guide.

What the full product contains

- **8 Critical Control Verification forms, one per critical control (6 preventing, 1 preventing and mitigating, 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 Physical separation (preventing); CCV-02 Routes and crossings (preventing); CCV-03 Authorised, fit operator (preventing); CCV-04 Plant in safe order (preventing); CCV-05 Proximity detection (preventing); CCV-06 Controlled approach (preventing); CCV-07 Low speed in shared areas (preventing and mitigating); CCV-08 Emergency response (mitigating)**
  03_CCV_FORMS/CCV-01 to CCV-08
- **The full bowtie for vehicle and pedestrian interaction on one page: every threat, consequence and critical control**
  02_BOWTIE/Vehicle and Pedestrian Interaction 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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