# Maintenance of Essential Safety Measures

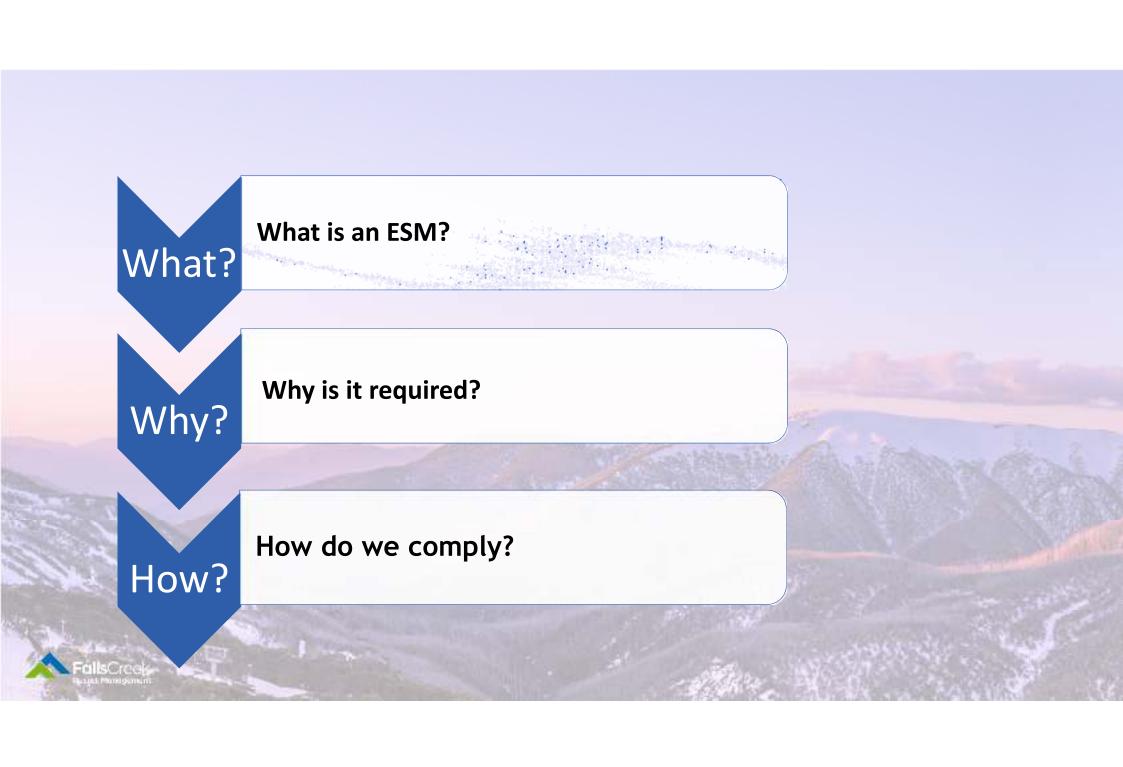
#### **Phil Davern**

Municipal Building Surveyor Falls Creek Alpine Resort Management Board



- Stakeholders
- Lodge managers
- James Wong CFA
- Georgie Gavin FCARMB
- Phil Davern FCARMB





## What is an ESM

- Essential Safety Measure
- Protects life and contributes to safe evacuation
- Protects property
- Listed in Schedule 8 of the Building Regulations 2018
- Passive and active systems



## How an ESM is identified?

- 1. Should be listed on a Certificate of Occupancy (CoO) or Occupancy Permit (OP) for the building
- 2. Can be via a Maintenance Determination (MD) issued by a registered building surveyor
- 3. The CoO, OP and MD should specify the frequency of testing and level of performance
- 4. The Falls Creek ARMB's Triennial Building Standards of Occupancy Reports (BSR) will identify the building's relevant ESM's and Frequency of Testing in the Appendix



	Essential safety measure to be inspected or tested	Installation standard or level of performance	Nature of inspection or test frequency	
	Building elements required to satisfy prescribed fire resistance levels	BCA Section C, D1.12	Annual inspection for damage, deterioration or unauthorised alteration.	
	Emergency lighting	BCA E4.2, E4.4, G4.4	Every six months to AS 2293 - 2005	
	Exit doors	BCA Section D	Inspection every three months to ensure doors are intact, operational and fitted with conforming hardware.	
	Exit signs	BCA D1.12, E4.5, E4.6, E4.8, G4.4	Every six months to AS 2293 - 2005	
	Smoke and heat alarm system	Clause 3 of Specification E2.2a	Monthly as prescribed in AS 1851 – 2012, Section 6	Total In
1 400	Fire extinguishers	BCA E1.6	Every six months to AS 1851 – 2012, Section15.4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Fire hose reels	BCA E1.4	Every six months to AS 1851 – 2012, Section 14	
454	Materials and assemblies required to satisfy fire hazard properties	BCA C1.10	Annual inspection for damage, deterioration or unauthorised alteration.	
	Paths of travel to an exit	BCA D1.6	Inspection every three months to ensure there are no obstructions and no alterations.	
	Solid core doors and self- closing mechanisms to bedroom entry doors	BCA C3.11	Annual inspection for damage, deterioration and check operation of closers.	
	Fire orders	G4.9	Annual inspection to ensure warning sign is in place and legible.	
	Signs on doors alerting people that they open inwards	G4.9	Annual inspection to ensure warning sign is in place and legible.	



## For the Safety of People in the event of a fire

Secondary – protecting property including adjoining property

## Legislation and obligations

National Construction Code

Building Regulations 2018 (Victoria)

- -Direct Responsibility on Owner/Lessee
- -Completion of <u>annual</u> ESM report

"Occupiers" have a responsibility to ensure exits and paths of travel to an exit are readily accessible

## Legislation and Obligations

## **Annual Inspections/Testing**

- Building elements required to satisfy prescribed fire resistance levels
- Materials and assemblies required to satisfy fire hazard properties
- Solid core doors and self-closing mechanisms
- Sign on doors
- > Fire Orders

## Legislation and Obligations

## Six Monthly Inspections/Testing

- Emergency Lighting
- Exit Signs

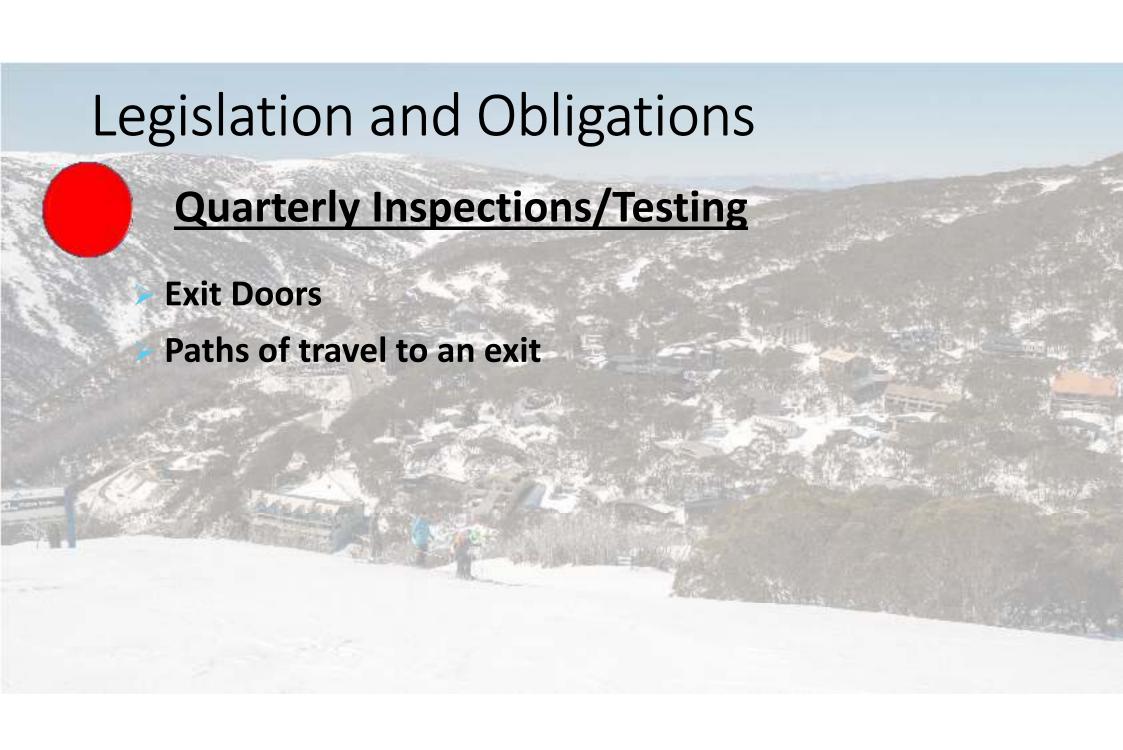


- > Fire Hose Reels
- Portable Fire Extinguishers & Fire Blankets











## Legislation and Obligations

## **Performing Testing/Inspections**

- **▶** Who can carry out maintenance?
- Competent person
  - A competent person can be defined as: "A person who has acquired through training, qualification, experience, or a combination of these, the knowledge and skill enabling them to correctly perform the required task."
- Depends on the ESM concerned
- Insurance implications



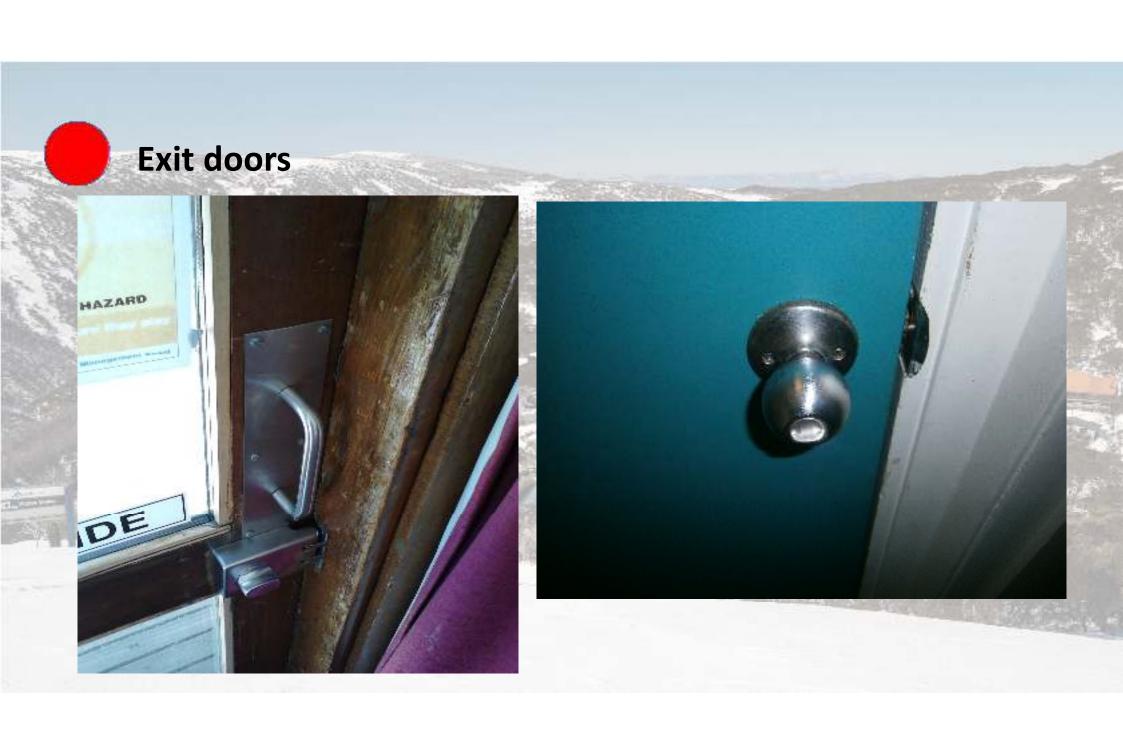


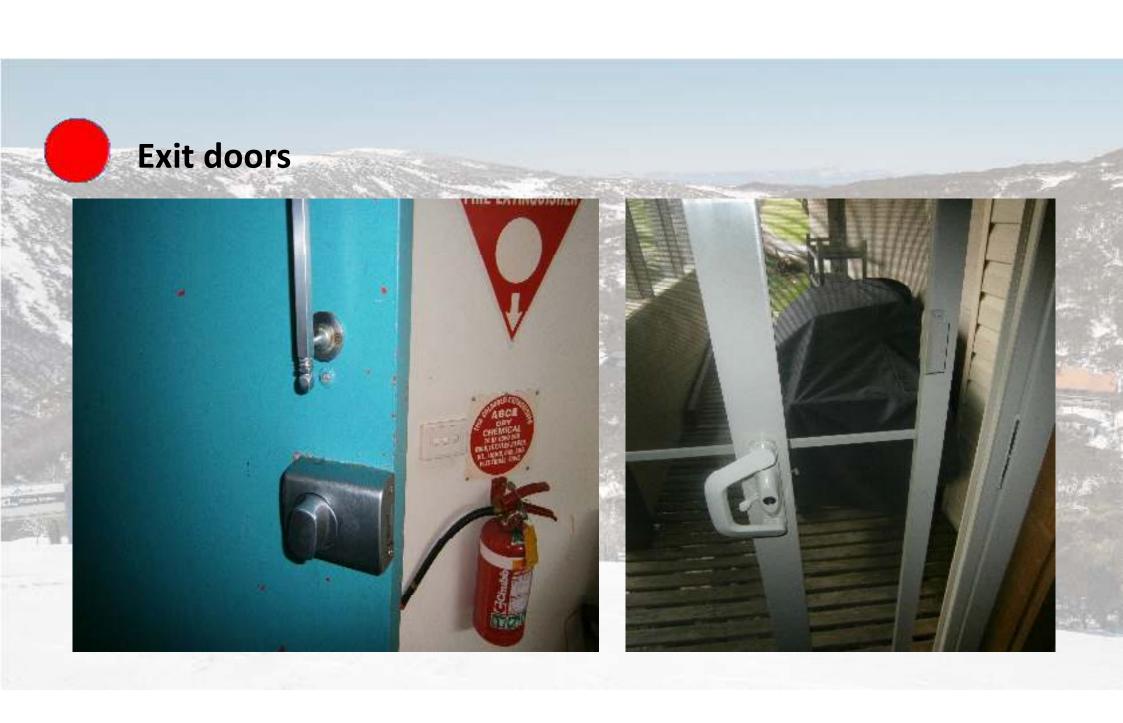
#### Solid core doors and self-closing mechanisms







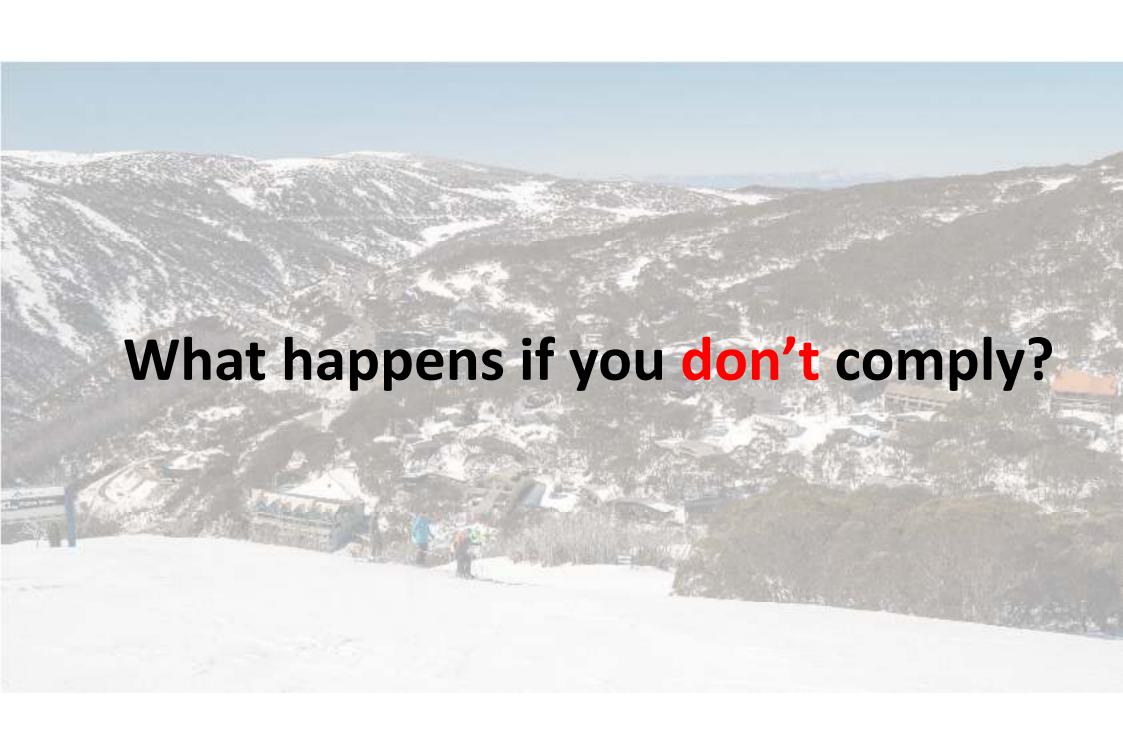


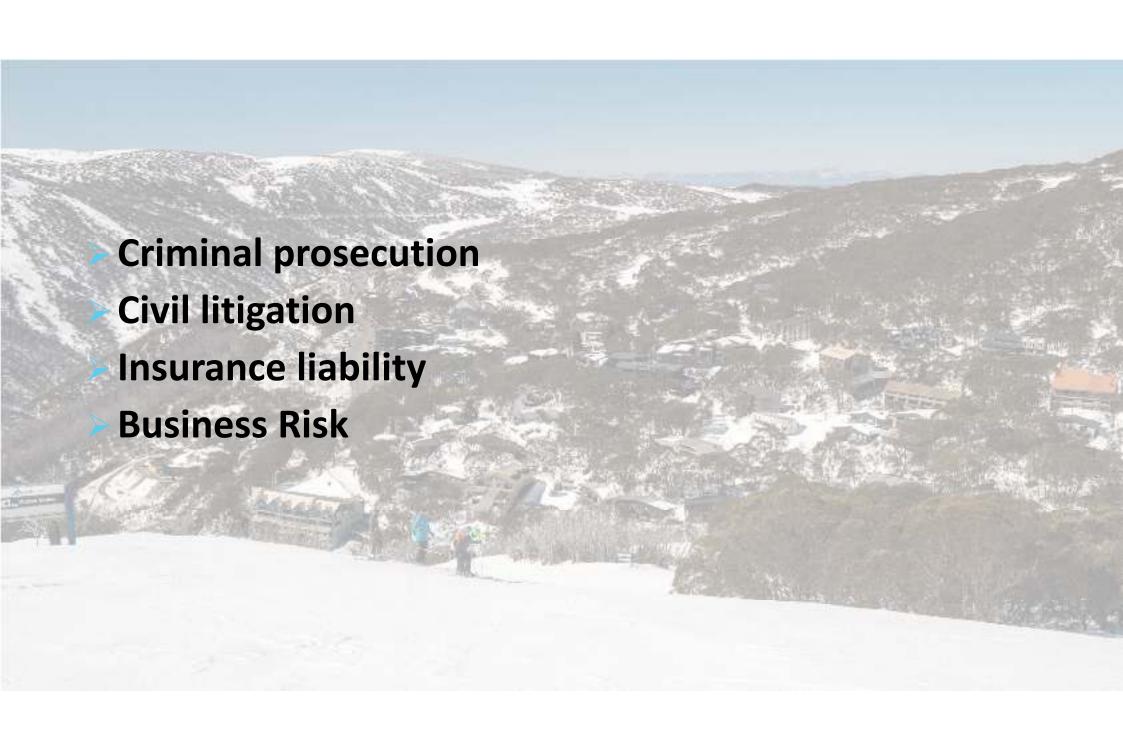




Record keeping

Maintenance Log Books
Smoke Detection and alarm System
Log Book
Emergency and Exit Lighting Log Book
Maintenance Tags – Log Book
Annual ESM report (copy to RMB)





#### **Common Mistakes**

- Yearly tagging of fire hose reels, portable fire extinguishers
- Yearly maintenance of smoke detection system and exit lighting
- No maintenance records kept on the premises
- Failure to prepare an annual ESM report
- Using domestic floor coverings in a commercial application
- Installation of deadlocks and snibs to designated exit doors
- Installation of curtains to designated exit doors
- Disconnection of self-closing door mechanisms
- No record of 'critical' tests being undertaken

#### Resources

- Victorian Building Authority ESM Manual and Practice Note
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- FCARMB website for annual ESM report example, template and typical ESM listing in alpine buildings https://corporate.fallscreek.com.au/property/
- Several commercially available software packages
- FCARMB MBS



#### Thank you for your contribution

