

Based upon AS3745-2010











Newcastle NSW -2007







Introduction & Welcome About Fire Risk Assessment Morning coffee (10:20) Evacuation Planning The role & duties of the Chief Warden The role & duties of Wardens Questions/Discussion

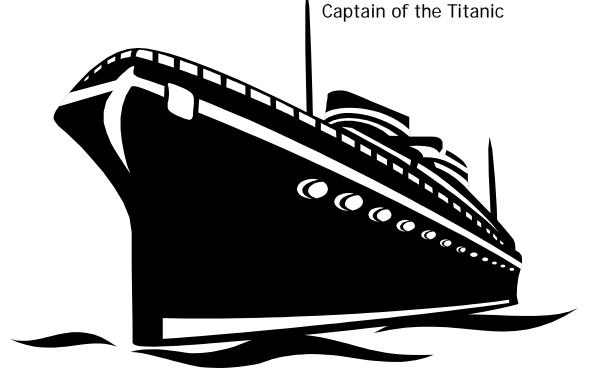


In preparing for battle, I have always found that plans are useless - but planning is indispensable

Dwight D. Eisenhower



I have been many times around the globe and many years at sea. Never once have I felt myself in danger.

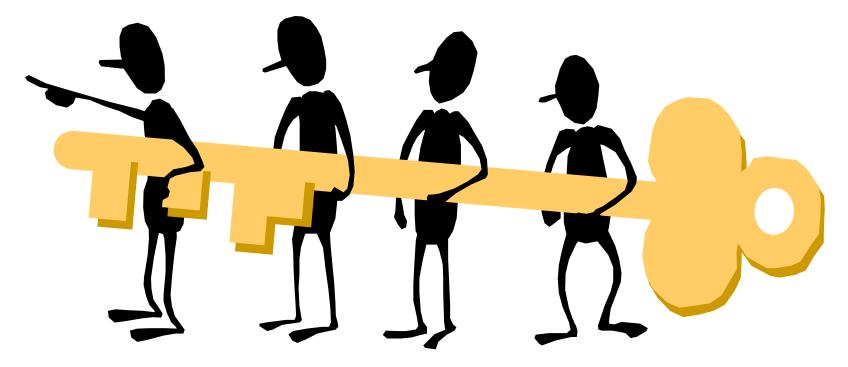








EMERGENCY PLANNING RISK MANAGEMENT DISASTER PLANNING BUSINESS CONTINUITY PLANNING





Risk Catastrophe Disaster Accident Emergency Occurrence



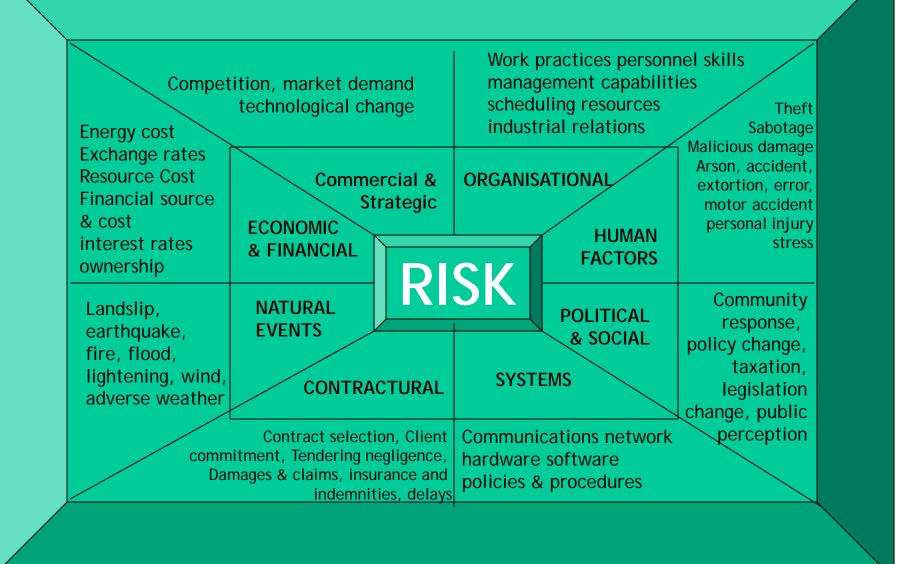
A risk becomes a reality becomes an emergency, or a catastrophe, or a disaster, dependant upon our ability (or inability) to handle it



There are so many types of Emergency and risk situations facing us each day, it is a wonder any of us get out of bed





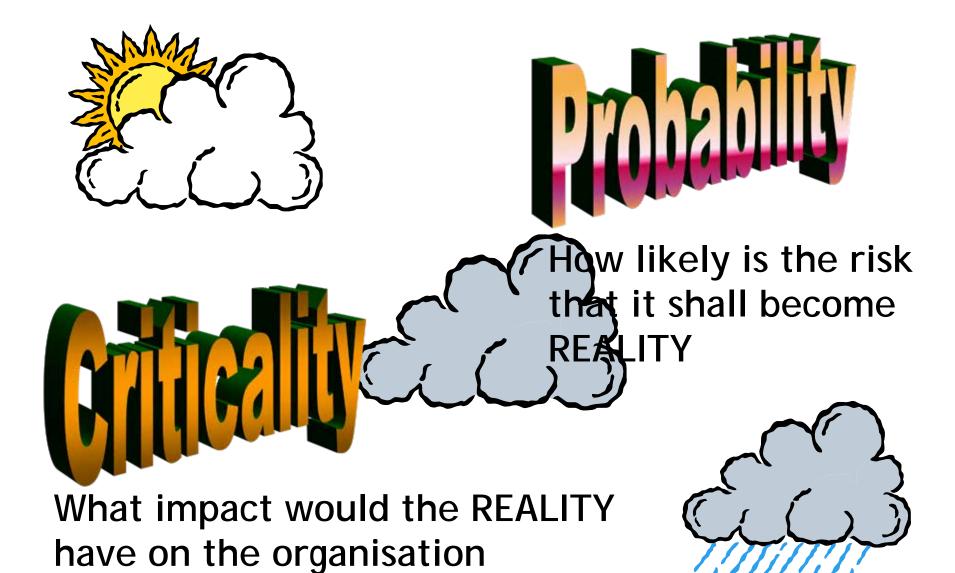




How do we decide which risks are likely to become reality and in turn become occurrences which shall require our immediate attention; EMERGENCIES







Risk Prioritisation

Description of risk	Probability Factor	Criticality Factor			Resources		
		Human	Property	Commercial	Internal	External	Total
	High or Low	High imp	oact<	> Low impact	Week<	>Strong	
Slips & falls	4	5	1	2	1	2	44
Lightening - fire	1	1	5	5	1	2	14
Electrical - fire	2	2	3	2	1	2	20





Identify the risk - and be specific enter the identified risks in the "Description of risk" column



Consider the risk of the probability becoming reality place a number from 1 (unlikely) to 5 (very likely) in the "Probability Factor" column





Criticality - A measure of the impact on the organisation *measured in terms of:*

- Human
- Property
- Commercial

place 1~5 in each of the criticality columns



Consider the ability and quality of both internal and external resources which may be required to minimise the risk place a number from 1 to 5 in each of the "Resources" columns an assessment of "1" indicates that existing resources are in place or readily available.





Totals -

- •1. Add the three criticality columns together
- •2. Add the two resources columns together
- •3. Multiply the probability factor by the sum of the criticality factor
- •4. Multiply the probability/criticality result by the total of the resources columns

Probability n	Χ	Criticality X	Resources n+n	=
			EI	



Risk Prioritisation

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	High or Low	High impact<		> Low impact	Week<	>Strong	
Slips & falls Lightening - fire Electrical - fire	4 1 2	5 1 2	1 5 3	2 5 2	1 1 1	2 2 2	44 14 20



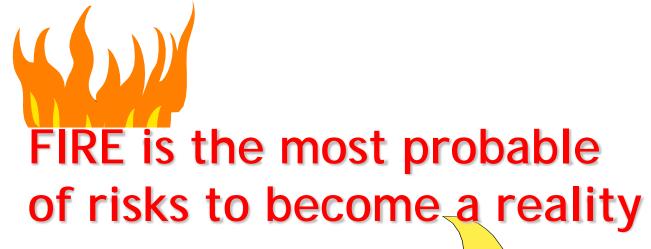


The "risk factor" is used to decide those risk areas that require your immediate and urgent attention and resource allocation. As well as those risks which may be deferred to a more appropriate time.

It is usual "Risk Management Practice" to set an arbitrary risk factor value, at which point further risk analysis and planning is ignored.

The Risk Factor will change as conditions change Therefore the calculation should be reviewed regularly

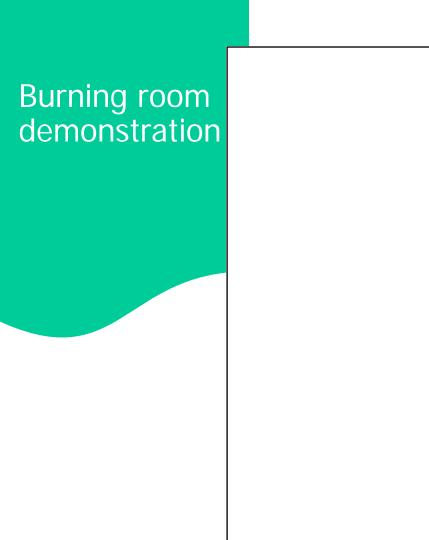






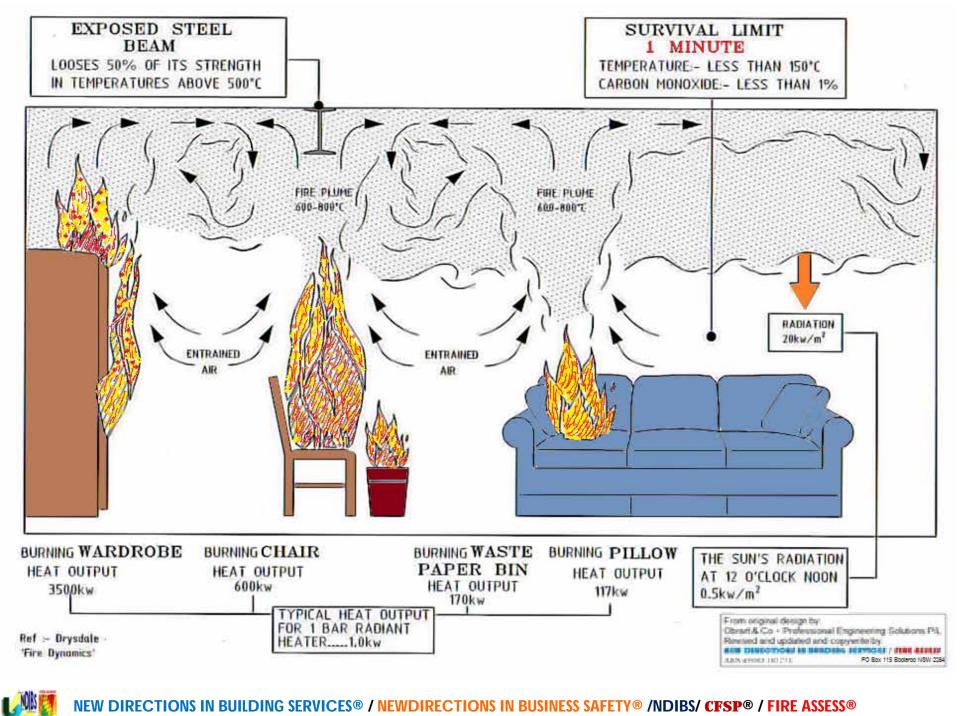
NSW Fire & Rescue, responds to over 1 Thousand Fire Calls each day.











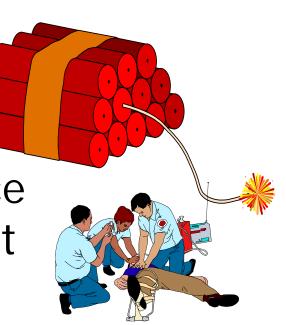


For what risks is an Emergency Evacuation Appropriate





- •Fire
- Bomb Threat
- Earthquake
- Civil Disturbance
- Hazmat Incident



In NSW, the Environmental Planning & Assessment Act & Regulations require: That Building Owners and Building Controllers ensure that every installed fire safety measure is maintained such that it shall perform at not less than that performance required when it was originally installed.

For regulated buildings (buildings other than detached family single dwellings and sheds), an annual assessment **must** be physically conducted by an accredited practitioner fire safety who is accredited to assess that particular measure and attest to performance on the building owner submitted annual fire safety statement A copy of that statement must be displayed prominently at the building.

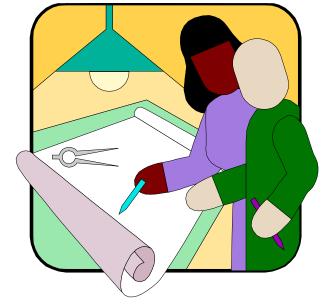








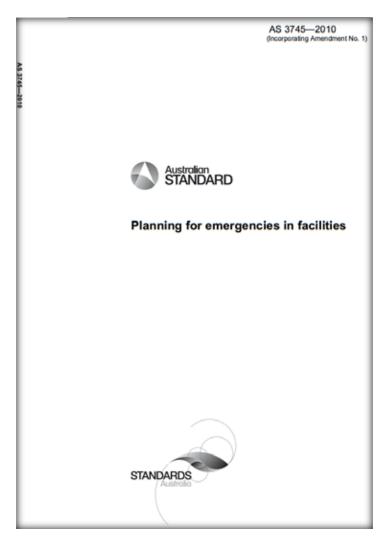










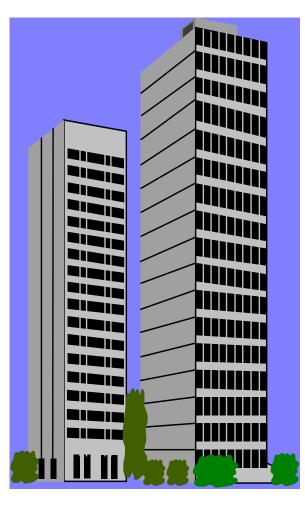


Australian Standard 3745-2010 Planning for emergencies in facilities

A building emergency can develop from a number of causes: fire, bomb-threat, structural fault or failure, leakage of gas or chemicals, civil disorder, earthquake and other causes.



The Work Health and Safety Act & Regulations



Employers must ensure the health, safety and welfare of their employees. Things that employers must do to ensure this include "maintaining places of work under their control in a safe condition inclusive of the provision of safe entrances and exits".

Employers must ensure the health and safety of people visiting these places of work and who are not their employees



Employees must take reasonable care of the health and safety of others

Employees must co-operate with employers in their efforts to comply with WH&S requirement



There is a Duty of Care in Common Law which applies to the care that you need to show others. Almost anyone coming onto a property may be considered (under law) your neighbour.



Training Competency Standard for Fire Response Training

The standard provides guidelines for the content of training supplied to members of the emergency control organisation

The Emergency Evacuation Plan should meet or exceed the AS3745-2010 requirements and meet legal and moral obligations



Compliance should be the Motivation Not the Objective

The object of Evacuation is to get everyone out safely and efficiently.







Safe Assembly Areas are Allocated



Training of Staff Undertaken (duty of employer)

Each Assembly Area has an Assembly Area Warden

(preferably a member of Staff)



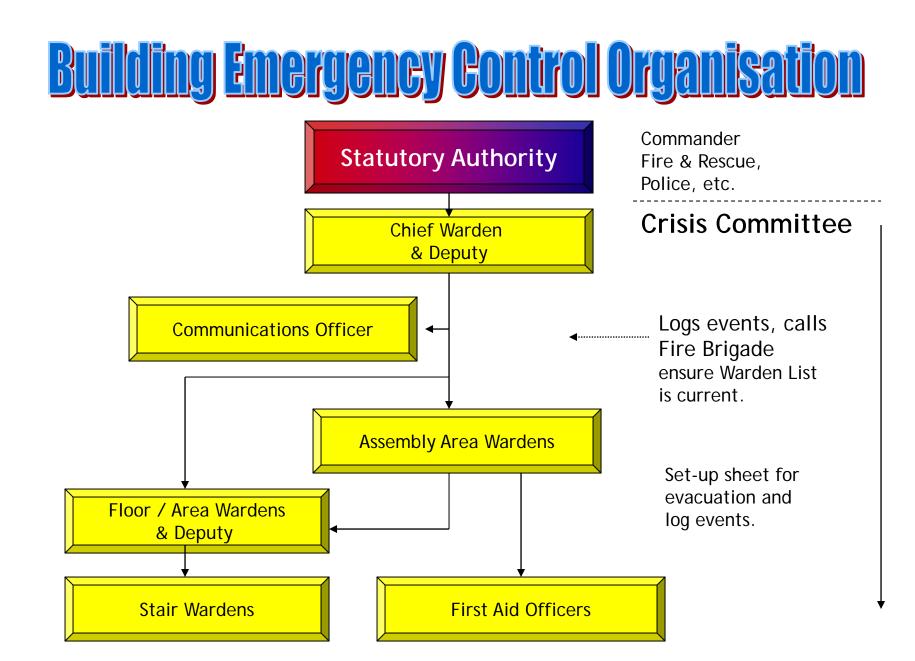


Assembly Area

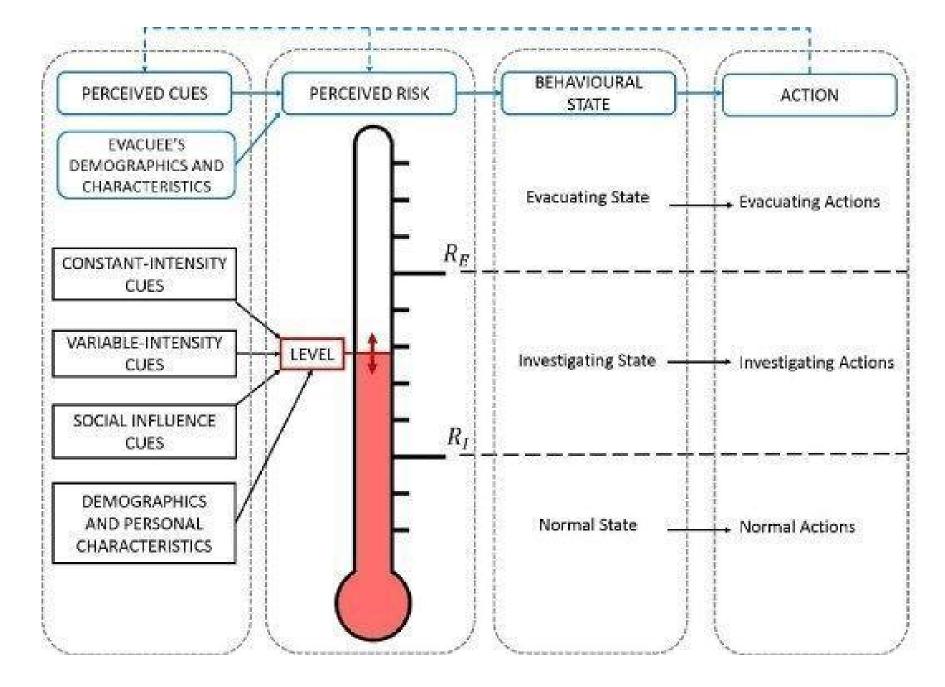
- Signposted
- Safe from shattering glass
- >300 metres safe distance
- away from emergency services vehicles
- Assembly Area Warden able to communicate with the Chief Warden















"A committee is an animal with four hind legs" - John LeCarre "A camel is a horse designed by a committee" - John R.Thompson



"Keep It Short & Simple" [KISS] - John R. Thompson





The right people on the committee A team approach:

Encourage participation and get more people invested in the process Enhance the visibility and stature of the planning process Provide a broad perspective on the issues of responsibilities Allow specialist knowledge to be imported





Four steps of the Planning Process

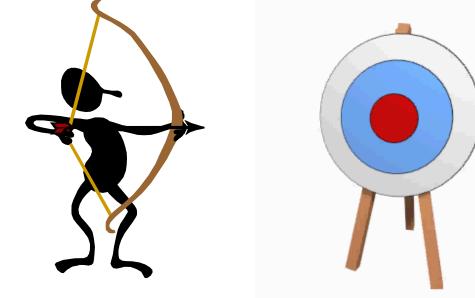
2. Identify and prioritise risks





Four steps of the **Planning Process**

3. Develop the plan







"Everything should be made as simple as possible, but no simpler."

Albert Einstein

- 1) Put the plan simply ...
- 2) No long, clever words for their own sake.
- 3) Plain, simple, straightforward, vanilla flavoured common sense.



Four steps of the Planning Process

4. Implement the plan(Test the plan)





- 1) Define the duties of ECO members
 - Emergency Control Organisation
- 2) Establish procedures for each position
- 3) Prepare checklists for all procedures
- 4) Define lines of succession
- 5) Determine equipment and supply needs for each function

Cater for peoples comfort at evacuation areas



Consider specific communications systems required in emergency situations, for example BOWS, Megaphone, Cellular Phones, portable radio transceivers, PABX, intranet, e-mail, internet, etc.

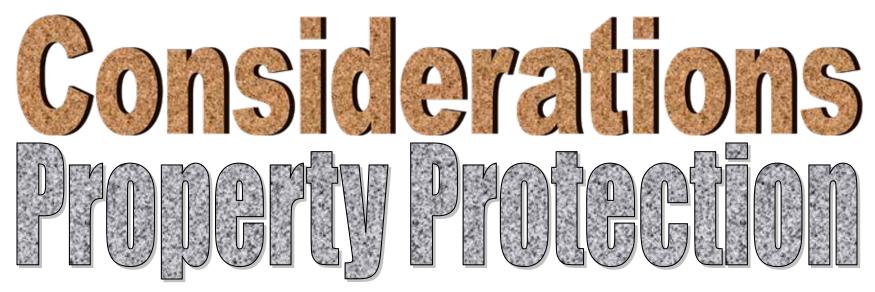
This facility may have unique systems that could be used to advantage.





Protecting the life and safety of everyone within the organisation is the first priority during an emergency





Procedures may need to address Fighting fires, containing material spills, shutting down equipment, moving equipment to other locations, and a myriad of other contingencies included within the plan.





Automatic detection and suppression systems, etc. should be considered

Balance compliance with common sense!

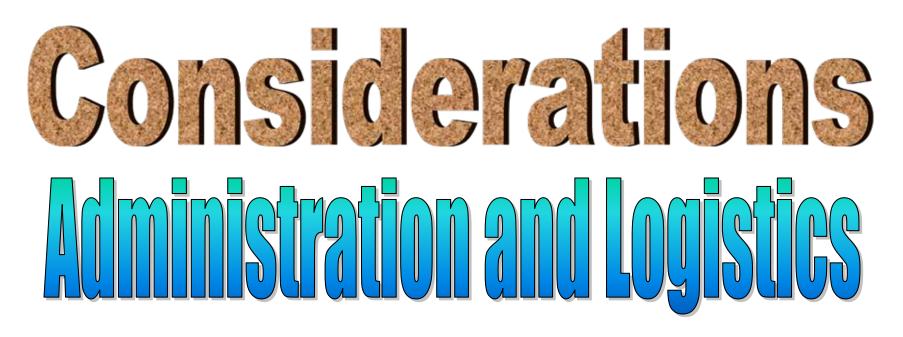




Consider how the community may help you and vice versa

Recovery and restoration





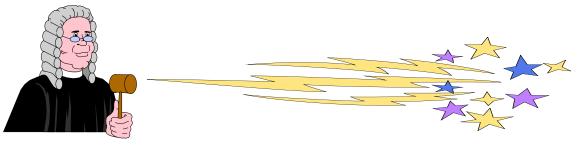
- 1) Written plan
- 2) Training records
- 3) Documenting drills and exercises
- 4) Involving others in the planning process
- 5) Acquisition and stockpiling of required equipment







Co-ordinate the activities of the emergency control organisation Objective of ECO Consensus Responsibilities and Power of the ECO





Co-operate with emergency services and statutory authorities

- Role of emergency services
- Information
- Training of ECO

Contribute to the training of the emergency control organisation

- Identify training needs
- Evacuation exercises
- Maintenance of Warden registry
- First Aiders registry
- have Working With Children
 accreditation register .



Ensure that emergency communications equipment is operated and tested

- Occupant Warning System monthly test
- Wardens verify operation
- Consider language / paralanguage



Ensure that emergency signals and reports are correctly initiated or identified

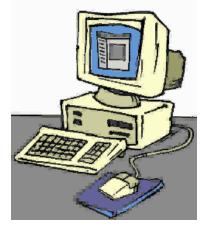
Assessment and action



Duties of Chief Warden Anticipate the behaviour and characteristics of typical

workplace emergencies.

Gather information Informed decisions





Ensure that special arrangements are made for the safe evacuation of mobility impaired people.

- Prior Incident
- Equipment & training



Co-ordinate reports of the results of evacuation.

- Recording information
- Analysing information





Ensure that routine maintenance of emergency equipment is carried out.

• Remedy and replace as required







Ensure that prevention inspections are conducted

- Hazard spotting
- Response









FIRST POINT OF CALL - POLICE via "000"



The role of the Warden Yellow hats & yests for all Wardens

When the fire alarm is activated

- You will either hear a BEEP-BEEP tone (the get ready to evacuate signal) Or
 You will have physical evidence of fire
 - 1) Collect your helmet (inside find the laminated instruction card)
 - 2) Direct the people to the fire exits, use "move directly this way"
 - 3) Communicate with the Chief Warden or Fire Officer be patient as the intercom system probably has many callers.



The role of the Warden Yellow hats & vests for all Wardens

The Chief Warden will broadcast from the Public Address System (BOWS) to Help you.

Use full flowing gestures when directing people Be confident, Act as though you are fully in control Be aware of the mobility impaired and

Deputise others to care for the mobility impaired Hold in safe havens if required Use special equipment.



The role of the Warden

Yellow hats & vests for all Wardens

Systematically search the area

Pay particular attention to storage areas and toilets Check areas that are infrequently used Be aware of those with special needs

When you have completed the search Advise the Chief Warden that the area is clear.

Communicate by:

Telephone, BOWS WIP, send a messenger, go yourself, report to the Assembly Area Warden

Say "Kitchen Area Clear"



The role of the Warden

Yellow hats & vests for all Wardens

Before the emergency Make sure you know your role Make sure you have your hat, vest & torch Know your search area Report hazards and equipment problems Know the occupants Know your Assembly Area Warden and Chief Warden Know your stair/area wardens and deputy Know what to do with the mobility impaired



An efficient evacuation will not occur if:

Furniture and other items are placed in corridors slowing down the rate of evacuation





Many fires in the workplace are the result of Bad Housekeeping:

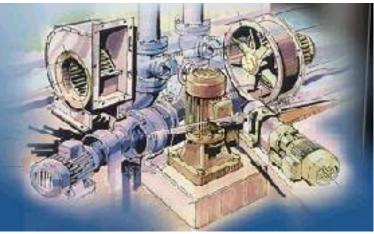
Rubbish or Combustibles incorrectly stored





Many fires in the workplace are the result of Bad Housekeeping:

Overload or faulty electrical equipment!





Fire doors are locked or obstructed!







Rubbish or stock in passageways Rubbish or stock on fire stairs Rubbish or stock obstructing services

- Electrical distribution boards
- Fire extinguishers
- Emergency exits
- paths of travel





Locked emergency exits Propped open emergency exits Power overload, piggyback plugs Electrical cord across walkway Electrical cord twisted in knot Fire extinguishers not serviced

6-monthly service (check tag)

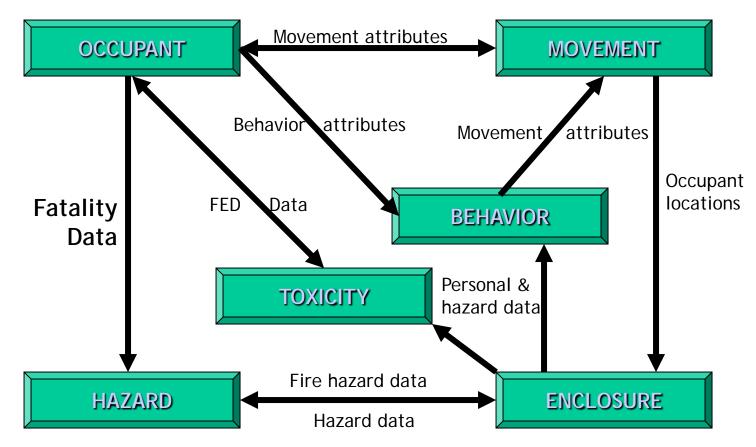


Rules for good housekeeping Keep fire exits clear at all times Keep fire doors unlocked from the occupied space at all times Ensure correct quantities, storage and labelling of chemicals Maintain a register of hazards at the fire control area Ensure proper and safe disposal of rubbish and waste Ensure regular maintenance of electrical equipment **Enforce NO SMOKING policies** Ensure that fitouts are fully compliant

Ensure all stock and equipment is stored and handled in an appropriate manner so as not to obstruct passageways Stowed materials should not obstruct any fire sprinklers (<500mm clear below sprinkler)









15% Do the **RIGHT** thing! Do the WRONG thing! 5% **COPY** the behaviour of those 80% around them!



The purpose of Emergency Evacuation Procedures is to safely and efficiently remove the occupants of the building

to safety.





Personal Emergency Evacuation Plans (PEEP)

Get everyone out!





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