

VOLUME ONE**GLOSSARY**

AC	<i>Alternating Current</i>
AFFF	<i>Aqueous Film Forming Foam</i>
AFS	<i>Airport Fire Service</i>
AIRS	<i>Australian Incident Reporting System</i>
All ready number one	<i>Tells the member in charge of a branch that another member carrying out some specified duties is ready to commence or has completed the task</i>
AMG	<i>Australian Map Grid</i>
Artificially odomised	<i>An odomising agent is added to a gas as a safety measure</i>
As you were	<i>A verbal command: cancels the order you were given</i>
ASO	<i>Airport Safety Officer</i>
ATC	<i>Alcohol Type Concentrate</i>
Avcat	<i>A type of kerosene with a flash point of above 65° C, specially distilled for use in naval aircraft turbine engines</i>
Avgas	<i>Type of aviation spirit. Flash point -40° C or slightly higher. Used in piston engines.</i>
Avpin	<i>Isopropyl Nitrate, an aviation fuel used on military aircraft with liquid fuel engine-started systems</i>
Avtag	<i>A type of kerosene with a flash point of -20° C. It has similar characteristics to gasoline</i>
Avtur	<i>A type of aviation kerosene with a flash point above 37.8° C. Finely filtered paraffin for turbine engines.</i>
B	<i>Centre of buoyancy</i>
BA	<i>Breathing Apparatus</i>
Bassinet	<i>A seat arrangement in passenger aircraft for the carriage of babies</i>
Back-draught	<i>An explosion caused by the inrush of fresh air from any source or cause, into a burning building, where combustion has been taking place in a shortage of air.</i>
Beams	<i>Part of a ship's structure which supports the deck</i>
BFFF	<i>Bush Fire Fighting Foam</i>
BLEVE	<i>Boiling Liquid Expanding Vapour Explosion</i>
Boil-over	<i>The overflowing of a burning oil tank caused by the production of steam in water beneath the oil.</i>
Bounce and Roll	<i>A ground application technique for applying foam between the fuel and the branch operator</i>
Brisonce	<i>The ability to hit so fast that things cannot move out of the way</i>
Buchholz	<i>A type of relay that detects the presence of gas and transmits a warning signal</i>

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Bulkhead	<i>An upright partition in a ship</i>
Bulls-eye	<i>Part of the fire burning most strongly</i>
Bund	<i>An enclosure around plant or tanks containing flammable liquid formed by the erection of walls or banks above ground level to contain safely leakage or spillage of flammable liquid.</i>
CAFS	<i>Compressed Air Foam System</i>
Cargo Ship	<i>A ship designed to carry large quantities of goods rather than passengers</i>
Carry on	<i>A verbal command: given after stop command</i>
Cess	<i>Area on the outside edge of a railway track</i>
Class A Fire	<i>All fires that involve solid materials of an organic nature, or carbon compounds</i>
Class B Fire	<i>All fires involving liquids or liquefiable solids</i>
Class C Fire	<i>All fires involving gases including liquefied gases in either liquid or vapour state</i>
Class D Fire	<i>All fires involving metals</i>
Class F Fire	<i>All fires involving oils or fats</i>
CM	<i>Configuration Management</i>
CO	<i>Commanding Officer</i>
Cone	<i>The shape of pressurised air that expels from a ventilation slot</i>
Cooking Off	<i>The initiation of explosives through the generation of heat</i>
CPS	<i>Counts Per Second</i>
CVL	<i>Centre Vertical Line</i>
DAD	<i>Digital Adding Dosimeter</i>
Datachem	<i>Chemical database</i>
DBFS	<i>Department of Bush Fire Services</i>
DC	<i>Direct Current</i>
DCP	<i>Dry Chemical Powder</i>
Deflagation	<i>Sudden and rapid combustion in which the flame speed is less than the velocity of sound in the gaseous products.</i>
Distributory Mains	<i>Supplies water from the second distribution point to sub-divided areas</i>
DOS	<i>Director Operational Support</i>
Down with the hydrant	<i>Instruction for water supply to be turned on</i>
DPOP	<i>Director Prevention and Operational Planning</i>
EAO	<i>Electricity Authority Officer</i>
EDO	<i>Equipment Development Officer</i>

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Electrical Fire	<i>A fire that is caused by an electrical arc</i>
Elevate	<i>A ladder command: raise the head of the ladder from the horizontal to the vertical</i>
EMF	<i>Electromotive Force</i>
Encrustation	<i>Living organisms and chemicals in water that have built up a crusty scale on the inner walls of a water main</i>
EO	<i>Explosive Ordinance</i>
EPA	<i>Environmental Protection Authority</i>
ESU	<i>Engineering Services Unit</i>
Expandol	<i>A synthetic detergent based foam concentrate</i>
Expansion Ratio/Factor	<i>A volume to mass ratio calculated by comparing the mass of equal volumes of foam and water</i>
Extend	<i>A ladder command: increase the length of the ladder</i>
FCO	<i>Fire Control Officer</i>
Fibro	<i>A type of material structure made of compressed fibres</i>
FIO	<i>Fire Investigation Unit</i>
Fire Tetrahedron	<i>Represents the flaming mode of combustion, fuel, temperature, oxygen and the chemical chain reaction are represented in the inverted pyramid shape</i>
FIU	<i>Fire Investigation Unit</i>
Flaking Hose	<i>Hose folded backwards and forwards like an accordion.</i>
Flash point	<i>The lowest temperature at which a liquid gives off sufficient flammable vapour into the air to cause a flash when an ignition source is applied to the vapour</i>
Flashback	<i>A term used to describe re-ignition of a fire when dry chemical powder has been used as an extinguishant. Propagation of a flame from an ignition source to a supply of flammable liquid.</i>
Flashover	<i>A stage in the development of a contained fire at which fire spreads rapidly to give large merged flames throughout the space.</i>
Foot	<i>A ladder command: maintain the stability of a ladder by placing a foot on the lowest rung and pressing on both strings with the hands</i>
Footprinting	<i>A technique for applying foam above ground</i>
Frames	<i>Frames determine the form of a ship. They support and stiffen shell plating.</i>
Free radicals	<i>Small particles that are created during the combustion process</i>
G	<i>Gravity</i>
Get to work	<i>A verbal command: carry out the instruction you have been given</i>
GIS	<i>Geographic Information System</i>
GPL	<i>General Purpose Line</i>
GSA	<i>Greater Sydney Area</i>
Hazchem	<i>Hazardous Chemical Classification</i>

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Hazmat	<i>Hazardous Materials</i>
Head	<i>The top part of a ladder that contacts the wall</i>
Heel	<i>The bottom part of the ladder which makes contact with the ground</i>
Heel	<i>The inclination or tilt of a ship caused by an external force such as wind or waves</i>
HHT	<i>Hand-held Transmitter</i>
Hi-ex	<i>High expansion foam</i>
High Expansion Foam	<i>Foam with an expansion ratio of between 500:1 and 1000:1</i>
Hopper	<i>A type of freight train</i>
Hot Spot	<i>Part of the fire burning most strongly</i>
House	<i>A ladder command: reduce the length of a ladder</i>
HV	<i>High Voltage</i>
HVWS	<i>High Voltage Water Spray System</i>
IMO	<i>International Maritime Organisation</i>
Keel	<i>The timber or steel structure along the base of a ship on which the ship's framework is built up.</i>
Knock-off the hydrant	<i>An instruction for the water supply to be turned off</i>
L	<i>Local line</i>
LCC	<i>Large Crude Carrier</i>
LED	<i>Light Emitting Diode</i>
Leg-lock	<i>A method of securing your balance whilst working on a ladder</i>
LEL	<i>Lower Explosive Limits</i>
Light back the hose	<i>An instruction for a hose line is to be withdrawn</i>
Light up the hose	<i>An instruction for a hose line is to be advanced</i>
Light Water	<i>A product of synthetic foam concentrate and water</i>
Lighting back	<i>An instruction for moving backwards with a delivery hose line</i>
Lighting up	<i>An instruction for moving forward with a delivery hose line</i>
List	<i>The inclination, or tilt caused by some item of weight on a ship being place in an off-centre position</i>
LNG	<i>Liquefied Natural Gas</i>
Loll	<i>The inclination of a ship to an unstable state caused by large volume of water stowed high in the ship</i>
Low Expansion Foam	<i>Foam with an expansion ratio of up to 50:1</i>

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LPG	<i>Liquid Petroleum Gas</i>
M	<i>Main Line</i>
M	<i>Metacentre of a ship</i>
Main Deck	<i>Forms the fourth side of a box girder construction of a ship. Plating is connected to beams which extend from side to side across the ship. Supported by girders and pillars</i>
Make-up	<i>An instruction for all equipment is to be disconnected, hoses are to be drained and re-rolled, and all items are to be returned to their place of origin</i>
Master Stream	<i>Any fire stream that is too large to be controlled without mechanical aid</i>
Medium Expansion Foam	<i>Foam with an expansion ration of between 50:1 and 500:1</i>
MH	<i>Metacentric Height</i>
Miscibility	<i>The ability of liquids to mix with each other</i>
Modiework	<i>A safety electrical test lamp</i>
Mushrooming	<i>A horizontal spread of hot gases at ceiling or roof level due to the vertical restriction of convection currents.</i>
NG	<i>Natural Gas</i>
Non-Pyroplonic	<i>Does not ignite very early on exposure to air</i>
NSWFB	<i>New South Wales Fire Brigades</i>
NTP	<i>Normal Temperature and Pressure</i>
OH	<i>Overhead Cables</i>
OIC	<i>Officer in Charge</i>
OLE	<i>Overhead Live Electricity</i>
On the bight	<i>An instruction for rolled hose</i>
PASS	<i>An acronym for operating a fire extinguisher, meaning pull the pin, aim low, squeeze the handle, and sweep from side to side</i>
PCB's	<i>Polychlorinated Biphenyls</i>
PDU	<i>Personal Distress Unit</i>
PEC	<i>Personal Equipment Connector</i>
PETN	<i>Pentaerythritol Tetranitrate</i>
Plumb	<i>At right angles to the horizontal</i>
POL	<i>Petrol, Oil and Lubricants</i>
Projection	<i>A term used for the distance that a jet stream travels before breaking up or dropping off</i>
QFE	<i>Quartz Fibre Electrometer</i>
Radhaz	<i>Radiation Hazard</i>
RAN	<i>Royal Australian Navy</i>

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RECEO	<i>An acronym for Rescue, Exposures, Containment, Extinguishment and Overhaul/ Salvage</i>
Reticulation Mains	<i>Water supply that feeds off distributory mains and feeds individual streets and buildings</i>
Ro-ro	<i>Roll-on, roll-off ship generally designed for the carriage of vehicles</i>
RTA	<i>Roads and Traffic Authority</i>
S	<i>Suburban Line</i>
SCBA	<i>Self Contained Breathing Apparatus</i>
Sear	<i>A locking catch which is connected to a firing pin on an aircraft ejection seat</i>
Sedimentation	<i>Mud, clay, silt and /or decayed organic matter built up within a water main</i>
SES	<i>State Emergency Services</i>
SFD	<i>Sydney Fire District</i>
SFO	<i>Senior Fire Officer</i>
SG	<i>Specific Gravity</i>
Shell Plating	<i>The principal strength member of a ship's construction. Runs continuously from the stem to the stern frame and from the keel to the weather deck.</i>
Ship	<i>To connect equipment to a hydrant</i>
Six Foot	<i>Area between sets of railway tracks</i>
Slixit	<i>A super concentrate degreasing agent</i>
Slop-over	<i>The minor overflow from an oil tank which sometimes occurs by the frothing of burning oil, when foam or water is applied to the surface.</i>
SOP	<i>Standard Operating Procedure</i>
SRA	<i>State Rail Authority</i>
SRB	<i>State Rescue Board</i>
Stack Effect	<i>Relates to the normal movement of air in a building due to the differences in internal and external temperatures. The hot air rises and cool air is drawn in from the outside. The effect in tall buildings can produce smoke movement characteristics which are difficult to predict.</i>
Still	<i>A verbal command: to cease all action immediately</i>
Stoichiometric	<i>A form of combustion which occurs when the mix of air and fuel are in precisely the right combination in relation to each other.</i>
Stretcher Style	<i>A method of carrying an extension ladder horizontally with two firefighters</i>
TIC	<i>Thermal Imaging Camera</i>
TLD	<i>Thermos-luminescent</i>
TNT	<i>Trinitrotoluene</i>
Trenching	<i>A ventilation technique for cutting across the entire width of a building roof.</i>
Trim	<i>The position of a ship or boat with reference to the horizon</i>

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Trunk Mains	<i>Supplies water from the original source</i>
Tuberculation	<i>Rust and oxides built up on the inner wall of a water main</i>
Tween	<i>Between two or more decks on a ship</i>
UBD	<i>Universal Business Directory</i>
UG's	<i>Underground Cables</i>
ULCC	<i>Ultra Large Crude Carrier</i>
UN	<i>United Nations</i>
Under below	<i>A verbal command: move away from structure</i>
Under-run	<i>A ladder command: lower the ladder by walking away from the heel while grasping each successive rung with the hands above the head</i>
VLCC	<i>Very Large Crude Carrier</i>
Warp	<i>In the construction of a delivery hose, it is the yarn that runs the length of the hose to give it durability to resist wear and tear</i>
Water Curtain	<i>A spray stream that has a fan shape</i>
Weft	<i>In the construction of a delivery hose, it is the yarn that runs crosswise to resist water pressure and keep the hose from bursting</i>
Wicket Gate	<i>A small door set into a larger door or into a gate</i>
XPT	<i>Express Passenger Train</i>