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## Foreword

The Firefighters Training Manuals have been produced to replace the existing Instructional Manuals. They have been structured and designed as a major source of reference material for all permanent and retained firefighters.

The manuals will satisfy both the existing structure of training and the new Competency Based Training (CBT) system, beginning in January 1996 with the first intake of Recruit Firefighters for that year.

Competency Based Training Module Manuals developed and prepared by the Australian Fire Authorities Council (AFAC) will be utilised by the NSW Fire Brigades in conjunction with these Training Manuals when they are finalised and published.

In commending this Training Manual to the NSW Fire Brigades, I acknowledge the considerable effort expended in reviewing the training criteria by many diverse groups, both within, and associated with the NSW Fire Brigades. The complete set of Training Manuals of which there will be approximately six, will provide the foundation for future development of fire fighting training in both a constructive and professional manner.

I D Mac Dougall, AC  
Commissioner

## Preface

During the compiling of Volume 2 the composition of the FTM Project Team was altered with the loss of both uniformed and contracted staff, namely Inspector Bob Gouttman, Station Officer Jeff Walker, Senior Firefighter Garry Warren, Helen Palmer and Swaraj Arvabhoomi. I would like to acknowledge the valuable contribution made to the project by these people and wish them all well for the future.

The Project Team has been complemented by the arrival of Senior Firefighter Lindsay Speldewinde from HazMat and Kirsten Regan whose word processing and general clerical duties have been of enormous help to the team. My thanks go to these two people along with the other members of the Project team; Roland Ford, Frank Marks, Karen Rolfe, Colin Ireland and Troy Bray for all their hard work.

In addition to those already mentioned, I would like to acknowledge the contribution made to this volume by all the topic sponsors who have reviewed the content of each topic. In particular; Regional Commander Greg Mullins, Inspector Steve Gray, Acting Inspector Gary Meers, Station Officers John Tapper, John Field, Paul Sydenham, Terry Munsey, Bob Ashforth, Chris Sykes, Warwick Kidd, Senior Firefighters Pat O'Mara and John Moore.

Finally, this list of acknowledgements would not be complete without reference to the following external organisations from whom we received invaluable assistance in the form of data and co-operation:

*Australian Fire Authorities Council, Comweld Group Medical Products, Rural Fire Service, Enerpac Hydraulic Power, Holmatro Industrial and Rescue Equipment, Industrial Printing Co, OTEN (Strathfield), Power Colour, State Rescue Board.*

Derrick Blackmore  
Project Co-ordinator

## Introduction

This is the first edition of the Firefighters Training Manual and it varies in format from earlier NSWFB Instruction Manuals. The content has been chosen to provide basic information and act as a source of reference material for all members of the NSWFB.

For ease of handling, the manual is being produced in six volumes. Each volume will contain topics that correspond with the training objectives and subject headings as determined by the Australian Fire Authorities Council (AFAC), and deemed a requirement for Competency Based Training.

A table of contents at the start of each volume details the topics contained within, plus the contents of the other volumes. Each topic is further sub-divided into sections, all of which are identified in the main table of contents. Additionally, each section has its own contents list prior to the start of the section, which also contains details on illustrations and tables.

The volumes have been designed to ensure that amendment action can be carried out easily through the use of numbered and dated pages. The control sheet (prelim page VII) provides details of this facility. A comprehensive glossary and index covering all the topics contained, is included at the rear of each volume.

In compiling this manual, the underlying theme throughout has been the standardisation of styles used. All measurements conform to the SI metric system and are abbreviated. All references and brand names (when included in main text) are identified in italics, as are all quoted words. Emphasis is displayed by the use of bold weighting on text.

Certain words used throughout the manual have the following meaning:



### CAUTION

**A warning against danger i.e. loss of life, personal injury, or damage to equipment could occur if the procedure is not carefully followed.**



### NOTE

**A procedure or item that is considered desirable to emphasise.**

The data contained within this volume will be used by the Examinations Section when setting questions for examinations up to and including the rank of Station Officer. However, this data will only be used after a period of six months has elapsed from the date of issue that appears in the footer of every page.

Finally, this manual has been produced using a desktop publishing program called *FrameMaker*, which enables the whole document (text and graphics), to be saved electronically. Ultimately, it is envisaged that the complete Firefighters Training Manual will be capable of being viewed via a computer terminal i.e. on-line and available on CD Rom.

## Index

References in this index are to Topic (T), Section (S) and Page Numbers (P). Where items are related under one subject heading i.e. **Cordage** a main heading is identified in bold text and subsequent related subjects are then listed alphabetically below. The Preface, Introduction and Glossary have not been indexed.

The index is arranged alphabetically word by word. Acronyms are treated as single words, whilst hyphenated expressions have been treated as two words.

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