

Advanced Compartment Firefighting

Training, Techniques & Tactics



Course Objectives To provide an advanced understanding of,

- compartment firefighting realistic training methods
- risk recognition and mitigation techniques
- firefighting tactics that deliver maximum safety and efficiency.

Training Method The course consists of a combination of theoretical presentations, practical evolutions, classroom scenarios and practical exercises. (45% theory and 55% practical).

Target Audience Experienced firefighters from Senior Firefighter to Senior Officer. The knowledge gained will also benefit frontline instructors, fire safety officers and senior management. A high standard of competence is set and participants need to be highly motivated to acquire knowledge and skill.



TOPICS

The need for realism in training – the balance with safety
Extreme fire behaviour – Flashover, Backdraught and Fire Gas Ignitions
Re-examination of Fire Science Fundamentals (based on latest research)
Fire Development in Compartments
3D Extinguishment Theory – droplet size and application.
Reading the Fire – develop the safest and most efficient strategy
Case Studies – Australian & International - video footage and discussion
Dynamic Risk Assessment – the Safe Person Concept
Entry procedures / progressive cooling / limitations of gas cooling
3D Zone Control - Safe Zoning and Buffer Zoning



Securing the safety of teams
BA Leader Concept (Swedish model)
Rapid Intervention Teams – (US approach)
RIT - an Australian perspective
Heat Stress concerns (PPE and heat soaking)
ICS - best practice in the UK, Germany & Australia
High Risk environments and additional precautions

Tactical Ventilation - a serious look at venting strategies
Ventilation – the Swedish approach
Hands on PPV workshop - acquired structure.
Setting up and running practical CFBT training sessions
OH&S Responsibilities and Legislative overview
Planning, preparation, delivery and evaluation of training sessions
'Dolls house' - replicating fire behaviour in a small scale



Attack Cell Evolutions - door entry into hostile environment.
Advance hoseline to fire whilst using 'gas cooling' techniques.
Retreat and leave structure using gas cooling techniques.
Observe fire behaviour from developing fire through to pre-flashover.
Practice 'gas cooling' techniques to cool fire and fire gases.
Advanced nozzle techniques
Building competence through confidence
The role of operational critiques in positive change.