

Fire Safety Template Area of Practice

Fire Safety Engineering deals with the protection of life, property and environment through the application of engineering principles, rules and judgement to the fire phenomenon, the effects of fire and the reaction and behaviour of people.

Some of the indicative activities that may be undertaken when practising Fire Safety Engineering are:

- Fire chemistry
- Fire dynamics
- Fire ground operations
- Fire insurance
- Fire investigation
- Fire prevention
- Fire protection both active and passive
- Fire risk assessment
- Fire safety design and management of:
 - Buildings
 - Industrial processes
 - Transport activities
 - Cities and communities
- Fire safety of consumer items and energy sources
- Fire safety engineering research and teaching
- Interaction between fire and people
- Smoke control

These activities could take place in any of the following Fire Safety Engineering domains:

- Buildings
- Infrastructure
- Industrial and processing facilities

Fire safety engineering is a general area of practice and available to those wishing to become registered on the National Engineering Register (NER) and to those wishing to become Chartered. It is available to all occupational categories.

For information on becoming registered on the NER click [here](#).

For information on becoming Chartered click [here](#).

For more information on Fire Safety Engineering, visit the Technical Societies page at <https://www.engineersaustralia.org.au/Communities-And-Groups/Technical-Societies>

Fire safety engineering deals with the protection of life, property and environment through the application of engineering principles, rules and judgement to the fire phenomenon, the effects of fire and the reaction and behaviour of people.

This Area of Practice requires additional evidence. You will need to provide a Training and Experience Report demonstrating that you understand:

- Fire science (fire chemistry and fire dynamics)
- Fire protection engineering (Active and Passive)
- Smoke control
- Interaction between fire and people
- Fire-ground operations
- Fire risk assessment
- Fire prevention
- Codes and standards

You must also demonstrate your professional involvement in one (or more of)

- Fire investigation
- Fire insurance
- Fire safety of consumer items & energy sources
- Fire safety design & management of buildings
- Fire safety design & management of industrial processes
- Fire safety design & management of Transport
- Fire safety design & management of cities and communities
- Fire safety engineering research and teaching