



Exploring Careers Through **Technical**



The Industry

Firefighters respond to emergency situations protecting people, the environment and property from all types of accidents and emergencies. They also work closely with the local community to increase levels of fire safety awareness to help prevent fires and accidents happening in the future.

There are two types of firefighter. Wholetime firefighters work for the fire service full time and usually in urban areas. Retained firefighters are on-call responders who usually live/ work within a mile of the fire station and respond to pagers when an emergency call is received (rural areas). A fireman works unsocial hours and can work up to 42 hours a week in a shift pattern. This could mean working two day shifts, two night shifts and then having four days off.

Employers include the civil airport and port fire services, forest industry and industrial fire services protecting private companies in e.g. chemical, pharmaceutical,

Skills and Requirements

You must to be aged 18 or over to become a firefighter and go through the standard national selection process (National Firefighter Selection and a Personal Qualities and Attributes (PQA) test to check your suitability.

You also need to:

- Be physically fit enough to carry heavy equipment and breathing apparatus and to move debris or carry victims
- Be clean shaven to wear breathing apparatus
- Have the ability to clearly communicate conditions at an emergency scene
- Have courage e.g. to enter a burning building
- Be able to make quick and smart decisions in an emergency to potentially save lives
- Be able to stay calm and professional under pressure with a reassuring manner even when dealing with people who are badly injured and/or distressed
- Have the physical stamina to stay at disaster





Exploring Careers Through **Technical**Routes Working and Learning in the Fire Service

Calculation including problem solving

Job Roles & Progression

It is not possible to do actual work experience due to health and safety requirements. You can however

be an observer in a fire station or attend an open day. You need to keep fit and gain as



Study Programme

Levels 2 and 3 Uniformed Public



Further study

BSc (Hons)
Fire & Leadership
Studies Fire & Rescue

Fire Service College specialist courses Institution of Fire Engineers (IFE) professional qualifications Heavy Goods Vehicle (HGV)



Apprenticeships

Emergency Fire Service
Operations Level 2 Firefighter
and Community



Career

RolesManager: Crew, Watch or Station

1. Calculate how much time you have in a fire according to the air in your tank.

Tasks

- 2. Collate data from previous fire reports in your area to prepare an informative talk on the dangers of a rubbish fire.
- 3. Calculate the fire flow formula (gallons per minute) to determine the % amount of water required to extinguish a fire
- 4. Estimate the angle and steepness of a slope at a fire scene to decide on the potential effects of fire spread.
- 5. Plot the number of kitchen fires by area over a 6 month period on a graph for promotional purposes.

Links to GCSE Maths

- 1. **Number** (whole number addition, subtraction, multiplication, division)
- 2. **Statistics** (collecting data data collection sheets, sorting data; representing data frequency diagrams, bar charts)
- 3. **Number** (whole number multiplication); **Ratio**, **proportion and** rates of change (percentages finding a
- 4. **Geometry and measure** (angles types of angles; Pvthagoras' Theorem)
- 5. **Number** (whole numbers addition) **Statistics** (representing data frequency diagrams, scatter graphs)

fires.

Communication, all

Tasks

- 1. Comfort an injured person who is being cut out of their car after a road traffic accident.
- 2. Brief your team on the way to a fire according to the information you have been given.
- 3. Give a presentation at a community event on the dangers of a rubbish fire.

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manual on the differe nt sizes of hoses to instruct other colleag ues on which one to use when and how.





Links to GCSE English Language

- 1. **Spoken language** (speaking; personal presence; tone; voice)
- 2. **Spoken language** (speaking and listening; discussion skills)
- 3. **Spoken language** (speaking audience and purpose); voice presentation)
- 4. **Writing** (context, audience and purpose audience, purpose; writing non-fiction writing a leaflet; planning planning a structure; organising information and ideas building sentences; literary techniques informative language)
- 5. **Analysing non-fiction** (non-fiction text types manual; context time, publication)

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