

Hazardous Materials



The Fire Service College



Hazardous Materials

World class training

Our Hazardous Materials (HazMat) courses provide the necessary skills to keep the emergency services and commercial industry at the cutting edge of response to HazMat risks. The College delivers high quality accredited training to First Responders and Incident Commanders in HazMat and Chemical, Biological, Radiological and Nuclear (explosives) (CBRN(e)), either at the customer's location or at our own exclusive facility at Moreton-in-Marsh.

Realistic scenarios

Through the incorporation of practical training, the College is able to test the application of a learners knowledge, skill and understanding of HazMats and CBRN(e) using realistic and detailed scenarios.

Our 300-acre training site provides the perfect location to create complex or bespoke incidents that learners could face in the real world such as chemical spillages, terrorist incidents or illicit drugs labs.

Competent training

Each of our HazMat courses are developed, delivered and assessed by in-house, sector competent specialists and are designed to meet the requirements of the National Operational Guidance for HazMat incidents.

Latest technologies

By linking directly with manufacturers from across the world, the College is able to offer learners an innovative training experience by utilising a wide range of state-of-the-art technologies including, but not limited to, personal electronic dosimeters, wet chemistry field kits, decontamination tents and environmental protection equipment.



Hazardous Materials Courses

www.fireservicecollege.ac.uk/hazmat

Hazardous Materials First Responder

Duration: **5 Days**

Accreditation: **JOIFF**

Course overview and learning outcomes

Fire and rescue services are responsible, under legislation and regulations, for developing policies and procedures, and to provide information, instruction, training and supervision to their personnel about foreseeable hazards and the control measures used to mitigate the risks arising from those hazards.

The aim of this course is to provide learners (Incident Commanders) with the necessary knowledge, understanding and experience to attend incidents involving hazardous materials and to bring them to a successful conclusion, or manage them in a safe and effective manner, until the arrival of a Specialist Officer/Tactical Advisor who possesses a higher level of knowledge and experience in the field of hazardous materials.

With the increased number of hazardous materials incidents attended by UKFRS over recent years, such as acid attacks, home-made explosives, illicit drugs labs, domestic carbon-monoxide and individual chemical exposures, we have a responsibility to ensure that the Incident Commanders mobilised to such incidents are prepared to deal with the situation.

By the end of the course, learners will have an understanding of:

- The foundation for HazMats
- The UN Classification of HazMats
- CLP and CHIP regulation
- Material properties
- Signage labelling and placarding
- Incident scene management
- Initial operational response
- JESIP
- Information retrieval and sources
- Environmental protection.

During the course, learners will attend fire ground

scenarios including, but not limited to:

- Asbestos
- Acetylene
- Individual chemical exposures
- Fly tipping involving hazardous materials
- Radiation
- Transportation of HazMats on rail lines and highways
- Illicit drugs labs
- Commercial processes
- Carbon Monoxide.

Who should attend?

This course is suitable for all Level 1 Incident Commanders and initial on-scene officers in charge.

The four and a half day course includes one day of theory input followed by three full days of scenario based training followed with an in-depth debrief and feedback to complete the course. Specialist input is given by Gloucestershire Constabulary CBRN(e) team who will also provide feedback from their perspective, on some of the scenarios.

How is the course assessed and accredited?

Learners will receive verbal and written feedback on their performance as incident commanders; in turn it will support the learners continuing professional development and maintenance of competence.

By completing this course each learner will receive an FSC certificate, the workbook 'journal' and feedback as part of their continuing professional development. This is not a pass/fail course and therefore not mandatory for promotional development.



Hazardous Materials Advisor

Duration: **15 Days**

Accreditation: **JOIFF**

Course overview and learning outcomes

In recognition of the latest developments in the world of hazardous response incident management and new national guidance, we have updated our award-winning HMEP course. This prepares learners to undertake the role of a HazMat Advisor (HMA) as a specialist support function at emergency incidents. The role of the HMA continues to evolve and is closely allied with other aspects of incident management, including: environmental protection, detection, identification and monitoring and also areas of national resilience, such as CBRNE and counter terrorism.

In a multi-agency response situation the HMA will perform a vital safety critical role in the integrated emergency management of an incident, whilst also being able to advise at incidents, such as criminal activity, involving hazardous materials.

In order to develop learners to be able to competently carry out this role, specialists are brought in to assist with the delivery of this course from;

- National Chemical Emergency Centre
- Met Office
- Compass Environmental Consultancy
- Public Health England
- Gloucestershire Constabulary CBRN(e)
- Quicksilver Special Effects.

How is the course assessed and accredited?

This course consists of a forty question pre-course learning package based around the NOG Foundation for Hazardous Materials and a three week residential course at our unique site, one of the worlds' largest operational fire and rescue training facilities.

“ I was very impressed with the enthusiasm and subject knowledge of the instructors. All too often I have experienced courses where it seems instructors are reading from powerpoints and may not have a detailed understanding behind the subject. This was certainly not the case with the instruction and input on this course.

There was a very good standard of instruction, one of the best courses and input I've had in 25 years of service.



The course includes a combination of theory sessions, table top scenarios, role-play and fire ground scenarios utilising the latest equipment from Thermo-Scientific and Vetter products. The summative assessment for the course is in the form of two written papers; one is based around chemistry and information gathering, the second is based on providing hazardous materials tactical advice to an Incident Commander.

Additions to the 2019 HMA course included training in emotional response and stress management, plume modelling and Chemdata and Chemsafe training from the National Chemical Emergency Centre.

After successful completion of the course, learners will be able to:

- Operate in a specialist support function and provide tactical advice to incident commanders
- Carry out a risk assessment specific to the role of hazmat officer
- Retrieve, interpret and apply Chemdata to hazmat incident scenarios
- Advise on risk control and environmental protection measures for incidents involving materials in all UN Hazard classes
- Utilise knowledge and lessons learned from recent incidents of significance.
- Use updated skills application in the role of hazmat officer.

Hazardous Materials Advisor Refresher

Duration: **3½ Days**

Accreditation: **FSC**

Course overview and learning outcomes

The course provides a three year revalidation of the HMA qualification. The aim is to update underpinning knowledge and skills and create an awareness of current issues within the field of hazardous materials and environmental protection. In turn it will support the learner's continuing professional development and maintenance of competence.

Topics covered will include an overview of the following:

- National Operation Guidance Foundation for Hazardous Materials
- Incident scene management
- Working in a specialist support role to the Incident Commander
- Selection of PPE and assessing contamination risk
- Decontamination strategies
- Information retrieval systems
- Interpretation of chemical data
- Environmental protection protocols and techniques
- Radiation protection
- Explosives
- Incident case studies
- Updating of current issues.

After successful completion of the course, learners will be able to:

- Operate in a specialist support function to Incident Commanders
- Carry out a risk assessment specific to the role of HazMat officer
- Retrieve, interpret and apply Chemdata to HazMat incident scenarios
- Advise on risk control and environmental protection

measures for incidents involving materials in all UN Hazard classes

- Utilise knowledge and lessons learned from recent incidents of significance
- Use updated skills application in the role of HazMat officer.

Who should attend?

Specifically designed for existing HazMat officers in a flexible duty role or dedicated specialist support function, this course is suitable for existing HazMat officers who initially qualified or who have not revalidated their skills in the last three years.

The revalidation process provides currency of underpinning knowledge and skills application for existing HazMat practitioners.

How is the course assessed and accredited?

Revalidation is by written assessment. Learners are expected to submit a completed risk assessment and provide tactical advice to an Incident Commander, based around the health, physical and environmental hazards of a given hazardous materials incident scenario.

“ The instructional staff were interactive, knowledgeable and professional. They delivered the training programme in a clear manner and offered positive challenges to aid the learning process. I found the course to be beneficial and worthwhile.





Hazardous Materials Instructor

Duration: **9 Days**

Accreditation: **FSC**

Course overview and learning outcomes

The aim of the course is to confirm the knowledge and skills required for FF5. To support learners to develop and deliver knowledge and skills training to meet the requirements of all the elements of unit FF5 'Protect the environment from the effects of hazardous materials'.

The topic areas will include:

- Hazards and risks at incidents involving hazardous materials and their impact on their environment
- The range of equipment and resources used at incidents involving hazardous materials
- Personal protective equipment at incidents involving hazardous materials
- Decontamination methods
- Physical properties and interpretation of information sources
- National Operational Guidance – Incidents Involving Hazardous Materials.

Successful completion of the course will enable learners to:

- Use a structured approach to prepare & deliver factual hazmat presentations
- Observe and effectively critique exercises developed by their peer group
- Prepare and facilitate an effective practical hazmat training exercise
- Deliver quality hazmat presentations.

Who should attend?

Designed for personnel with a training responsibility, this course prepares learners to deliver hazardous materials training at first responder and supervisory level.

Learners will be engaged in a varied programme to develop their own subject matter expertise, presentation skills and taught how to organise and conduct their own practical exercises using our unique incident ground facilities. Teaching practices will be evaluated by qualified and experienced College tutors throughout the course.

Learners must:

- Hold or be working towards PTLLS or alternative appropriate teaching qualification
- Have demonstrated that they possess the underpinning skills & knowledge to provide instruction to learners through accredited prior learning (APL), to the satisfaction of their FRS or employer and the College.

During the course there will be occasions when breathing apparatus will be worn. Therefore it is a requirement that facial hair, which may affect the face seal, must be removed, in accordance with College policy and HSE guidance.

Because of the physical demands of the course, learners must:

- Be fit for full operational duties in accordance with fire and rescue service requirements
- Attend with full firefighting kit that conforms to current standards.

How is the course assessed and accredited?

This course is assessed through learner's presentations. Learners receive an FSC attendance certificate

National Occupation Standards:

- 048 - Environmental Risks and Control
- 059 - Dealing with Hazmat Incidents.







Hazmat course dates and prices

Hazardous Materials First Responder

Price: £1895.00 +VAT per person

Dates:

20 – 24 April

19 – 23 October

Hazardous Materials Advisor

Price: £3525.00 + VAT per person

Dates:

09 – 27 March

02 – 20 November

Hazardous Materials Advisor Refresher

Price: £985.00 + VAT per person

Dates:

30 November – 03 December

Hazardous Materials Instructor

Price: £2240.00 + VAT per person

Dates:

14 – 25 September

Accommodation is an additional charge to the course price



The Fire Service College

London Road
Moreton-in-Marsh
Gloucestershire
GL56 0RH

t: + 44(0)1608 812984

e: sales@fireservicecollege.ac.uk

www.fireservicecollege.ac.uk

