UKATA Syllabus

SMG02

Management of Asbestos in Soil and Made Ground

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- AA: Asbestos Awareness
- NL: Non-Licensed
- LW: Licensed Work
- DTM: Duty to Manage
- AM: Asbestos Management
- AS: Analyst/Surveyor
- RP: RPE/PPE
- ✓ **SMG: Soil & Made Ground**
- OH: Occupational Hazards

UKATA is a leading non-profit association dedicated to improving the quality and standards of asbestos, silica and dust control training.

Recognition and Grants

This UKATA syllabus has been mapped against the CITB standard and is available for grant payments to levy registered employers.

Training Type	Grant Tier	Grant Rate	Grant Code
Initial	1	Up to 50% of training cost	GET3380

UKATA is a Member of The CPD Certification Service providing recognised independent CPD accreditation compatible with global CPD principles.

This UKATA syllabus has been reviewed and independently certified as being suitable for CPD purposes by The CPD Certification Service.

UKATA holds ISO 9001 certification and continues to maintain the quality standard through annual auditing. ISO 9001 is a global standard for quality management systems (QMS), requiring organisations to demonstrate that their internal procedures meet rigorous guidelines, ensuring consistent delivery of quality products and services to customers and stakeholders.

Contents

Title	Page No
1. Course Title	4
2. Introduction	4
3. Purpose/Scope	4
4. Occupational Relevance	4
5. Duration	4
6. Learner Pre-Requisites	4
7. Individual Learning Needs	4
8. Instruction/Supervision	5
9. Delivery	5
10. Assessment	5
11. Quality Assurance	6
12. Renewal/Refresher	6
13. Approval Date	6
14. Review Cycle	6
15. Additional Resources	6
16. Learning Outcomes	7
17. Required Course Content (Theory)	8 - 9
18. Required Course Content (Practical)	10

1. Course Title

Management of Asbestos in Soil and Made Ground

2. Introduction

This syllabus sets out the guidance issued by UKATA for the provision management of asbestos in soil and made ground training for supervisors, managers and CDM duty holders engaged in work on sites that have been identified as potentially having asbestos containing materials (ACMs) within the soil on site in accordance with the Control of Asbestos Regulations 2012 (CAR). This course does not provide learners with suitable and sufficient information, instruction and training to enable them to work with asbestos containing materials.

This document provides the syllabus for the training along with guidance on the minimum content of all courses. Tutors can offer bespoke or tailored training for the remainder of any training session, but the core content must be adhered to.

3. Purpose/Scope

The purpose of this training is to assist learners to meet their legal obligations by providing them with an explanation of the properties of asbestos and its effects on the health of individuals, the types, uses and the visible manifestation of asbestos in soils and the understanding and interpreting soil reports. The course will also highlight the general procedures that need to be followed in the event of an emergency and how to avoid the risks from ACMs in soil.

4. Occupational Relevance

Any person responsible for managing sites in which the soil analysis report has identified asbestos containing materials within the soils on site; or where ACMs could be encountered within the soils on site. This would include but is not limited to the following – CDM duty holders i.e. clients, client's agent, the principal designer, the principal contractor, HSEQ managers/advisors (including any consultants fulfilling these roles and responsibilities), and any contractor's employees responsible for excavations, on-site remediation, site investigations and the disposal of waste from site.

5. Duration

Minimum of 6 learning hours.
(This includes the time allocated for the final exam)

6. Learner Pre-requisite

Learners are required to have successfully completed a UKATA Asbestos Awareness course within the last 6 months. Proof of this training must be verified by the training provider and should be dated no earlier than six months prior to the start of the course. If the Asbestos Awareness certification has expired beyond this six-month window, learners must undertake a new UKATA Asbestos Awareness course.

7. Individual Learning Needs

The tutor must assess each learner's individual needs before the course begins and adapt the training accordingly.

8. Instruction/Supervision

As a minimum, tutors must meet the following criteria:

- Tutors must have a minimum of at least three years' experience (within the past five years) in the health and safety sector or at least three years' experience (within the past five years) in the asbestos industry which may include, surveying, analytical, removal, consultancy, training, management etc.
- Be able to demonstrate experience of delivering Asbestos Awareness Training.
- Hold a suitable asbestos qualification recognised by the asbestos industry, which may include: asbestos surveying, asbestos management or asbestos removal, or other such qualifications that UKATA deems to be acceptable.
- Hold a recognised trainer qualification, i.e., Level 3 Award in Education and Training, or must achieve this qualification within 12 months of registration with UKATA.
- Must be able to demonstrate a comprehensive practical working knowledge, within the asbestos industry, including its legislative requirements relating to contaminated land;
- A successful UKATA Audit, or an internal Audit undertaken by the Member company they are working for at the highest category of training the Tutor will deliver on behalf of the Member.
- After meeting the above criteria, the Tutor is required to pass the UKATA Management of Asbestos in Soil and Made Ground Tutor Knowledge Test.

9. Delivery

Training must be delivered in a suitable environment and in accordance with the UKATA Training Centre & Equipment Minimum Standards. All equipment must be of a suitable quality and quantity for learners to achieve learning outcomes and must comply with relevant legislation.

The class size and tutor to learner ratio must allow training to be delivered in a safe manner and enable learners to achieve learning outcomes. The approved training delivery methods for this training along with the maximum tutor to learner ratios are:

Classroom: 1:15
Virtual Classroom: 1:12

10. Assessment

Attainment of the learning outcomes will be assessed by a multiple-choice exam consisting of at least 30 questions taken from the UKATA question bank and sat under exam conditions. At the discretion of the tutor, learners shall be permitted to refer to any notes they make during the training session, or the training manual/notes provided by the tutor.

Learners will be required to achieve a score of at least 24 out of 30 (80%) in the exam. Failure to achieve this will result in the learner requiring to re-sit the exam under exam conditions. If a learner fails the second attempt, they will be required to re-sit the course in its entirety.

The exam should have a completion time of approximately 40 minutes, though this is intended as a guideline. Tutors should accommodate the diverse needs of learners, which may include reading the questions aloud when necessary. However, no assistance may be provided in answering the questions.

11. Quality Assurance

Quality assurance against this syllabus requires verification and approval of the presentation materials, exam papers, course handouts and tutor narrative. Independent audits are carried out to demonstrate conformity with the training standards set by UKATA and each tutor maintains a CPD record that aligns with the UKATA Tutor Competency Framework.

UKATA prides itself on numerous accreditations and certifications that reflect our commitment to the highest standards of service and quality. A detailed list of these can be accessed at: UKATA Accreditations.

12. Renewal/Refresher

Certification for this training course will be valid for one year.

It is recommended that renewal/refresher training is carried out annually.

The duration of refresher training is determined by a training needs analysis (TNA) conducted by the training provider and should be a minimum of 3 learning hours.

Learners must provide evidence of their previous UKATA Management of Asbestos in Soil and Made Ground (or refresher) training, completed within the last 12 months. If unable to verify recent certification, learners will need to undergo the full training course again.

Following the certification expiration date, a grace period of three months is permitted for refresher training to be delivered. The employer should, in this case, carry out a TNA and discuss the training requirements with the training provider.

13. Approved Date

01/02/2025

14. Review Cycle

Either on request or within 3 years from approval date.

15. Additional Resources

View	Managing and working with asbestos - Control of Asbestos Regulations 2012(CAR 2012) - Approved Code of Practice and guidance.
View	CAR-SOIL™: Control of Asbestos Regulations 2012 - Interpretation for Managing and Working with Asbestos in Soil and Construction and Demolition Materials: Industry Guidance, 2016.
View	HSG 264 Asbestos: The Analysts' Guide.
View	HSG 248 Asbestos: The Survey Guide.
View	Managing health and safety in construction - The Construction (Design and Management) Regulations 2015 (CDM 2015)
View	Identify the difference between licensable work and non-licensable (notifiable or non-notifiable) work.
View	Environmental Protection Act 1990

16. Learning Outcomes

- ✓ Explain the Construction Design and Management (CDM) Regulations 2015, focusing on client and principal designer duties related to pre-construction information.
- ✓ Detail how CAR 2012 regulations apply to managing asbestos in contaminated land and soil, referencing the CAR-SOIL industry guidance.
- ✓ Describe the impact of additional legislation, such as the Environmental Protection Act 1990 and regional contaminated land regulations, on site management practices.
- ✓ Outline the investigative processes for site surveys on suspected contaminated land, including steps for initial assessments and detailed ground evaluations.
- ✓ Discuss soil sampling methodologies and the importance of UKAS accreditation in the analysis of soil samples.
- ✓ Identify the components and objectives of a Materials Management Plan (MMP) and how it addresses risk management and legislative compliance.
- ✓ Describe the immediate actions required when asbestos is inadvertently discovered during excavation, including emergency measures and area isolation.
- ✓ Explain various remediation strategies based on contamination level and type, detailing procedures for both in-situ management and off-site disposal.
- ✓ Detail the delineation of work areas into asbestos and non-asbestos zones, including procedures for the safe access and egress of personnel and machinery.
- ✓ Explain the use of critical safety measures, including PPE and RPE, in handling asbestos-contaminated soils.
- ✓ Discuss decision-making factors in choosing appropriate remediation actions, such as land use considerations, client risk tolerance, and regulatory influences.
- ✓ Analyse case studies to understand the practical application of remediation strategies in real-world scenarios.
- ✓ Recognise the legal implications of asbestos management breaches through real-life prosecution examples by HSE, EA, or SEPA.
- ✓ Develop a Materials Management Plan through a practical exercise, focusing on how to assess contamination, select remediation methods, and ensure procedural and regulatory compliance.

17. Required Course Content (Theory)

MODULE 1		**DURATION: APPROXIMATELY 30 MINUTES**
	Legislation	
	1.1	Explain the Construction Design and Management (CDM) Regulations 2015: Cover Regulation 4: Client duties; Regulation 11: Duties of principal designers. Explain the client's and principal designer's duties regarding the provision of pre-construction information before work commences, including asbestos survey reports, soil analysis reports for ground contamination, and the client's responsibility to ensure that suitable and effective welfare facilities are available and useable prior to work commencing on site, in accordance with Schedule 2 of CDM 2015.
	1.2	Explain the specific regulations of the CAR 2012 and their relevance to contaminated land and contaminated soil: Describe the regulations of the CAR 2012 as they relate to managing and working with asbestos in soil and construction and demolition materials, referencing the industry guidance commonly abbreviated as CAR-SOIL.
	1.3	Describe other relevant legislation: Include awareness of other Statutory Instruments such as the Environmental Protection Act 1990 (especially Part II), Town & Country Planning Act 1990, Contaminated Land (England) Regulations 2006. Tailor the learning objectives to fit the target audience and the statutory location where the training is delivered, including Contaminated Land (Scotland) Regulations 2005, Northern Ireland Waste and Contaminated Land (Northern Ireland) Order, and the Contaminated Land (Wales) (Amendment) Regulations 2012.

MODULE 2		**DURATION: APPROXIMATELY 40 MINUTES**
	The Site Survey	
	2.1	Explain the investigative process carried out on a suspect contaminated land site at the inception stage of the project. Cover the initial steps that should be undertaken before starting the on-site survey, including the initial desktop investigation of historical records and local authority records. Describe in detail the planning of the ground assessment, how the survey may be compromised by conditions and surroundings, and the survey methods. This includes the type and depth of sampling, sampling strategies such as probability sampling and judgemental sampling, with examples of each, and composite sampling.
	2.2	Include details on the sampling equipment, decontamination requirements, personal protective equipment (PPE), and respiratory protective equipment (RPE). Explain the analysis of the soil samples in sufficient detail, emphasising the need for UKAS accreditation and covering the process from stage 1 through stage 3, cone and quartering, gravimetric analysis, and the soil analysis report.
	2.3	Show example soil analysis reports, highlighting the layout and information contained within the report. Explain the Hazardous Waste threshold of 0.1% concerning free fibres and/or discrete fragments.

MODULE 3		**DURATION: APPROXIMATELY 45 MINUTES**
	Materials Management Plan	
	3.1	Explain the contents of a materials management plan (MMP) and how identified risks will be managed. Cover responsibilities, the removal of contaminated materials from the site, remediation, and the reuse of material on site as fill, grading, or landscaping. Discuss how this information should be captured within the MMP.
	3.2	Include a practical exercise where the learner develops a management plan, using what they have learned throughout the training. This exercise will help learners understand what is required within the management plan and how they can implement similar plans within their own business.
	3.3	Describe the requirements laid down in CAR 2012, including the different types of asbestos-containing materials (ACMs) and situations that are licensable and require the use of a Licensed Asbestos Removal Contractor, as well as those that are non-licensable work. This section should also cover notifiable non-licensable works (including NNLW).

MODULE 4	DURATION: APPROXIMATELY 60 MINUTES
	Inadvertent Identification
	4.1 Explain when and how asbestos could be found and the appropriate actions if a contractor inadvertently discovers hidden asbestos products during excavation. Discuss the initial steps to make safe, including isolation of the area and ensuring emergency equipment is readily available. Cover the use of personal protective equipment (PPE), respiratory protective equipment (RPE), and the risks of contamination to personal clothing. Emphasise the need for sampling and analysing the materials before continuing with the project.
	4.2 Continue by providing solutions to address inadvertent discoveries of asbestos. Include emergency remediation actions such as removal, disposal, the contractor's role in these processes, temporary storage of contaminated materials, and air monitoring strategies. Detail the importance of boundary monitoring, handling plant and machinery, and decontamination procedures to ensure safety and compliance with regulations.

MODULE 5	DURATION: APPROXIMATELY 40 MINUTES
	Planned Work
	5.1 Explain the various options available for handling contaminated sites, considering the level of contamination, type of contamination, and other external factors. Discuss the full range of remediation options, including leaving contaminated materials in-situ, on-site reuse, on-site treatment, hand picking from the ground, hand picking from a picking line, screening, stabilisation, off-site treatment, and disposal. Describe how these remediation actions are undertaken with the correct personnel and systems in place to ensure compliance with legislation.
	5.2 Detail the factors that determine the best course of action for a contaminated site, which may include land use, the client's attitude to risk, project timelines, regulatory controls and recommendations, and necessary notifications to relevant authorities.
	5.3 Provide examples to illustrate the delineation of work areas in asbestos and non-asbestos zones, including dirty zones and clean zones, and the procedures for access and egress of personnel and machinery. Further explain the air monitoring strategies and controls that should be implemented while remediation works are being undertaken, detailing who is responsible for monitoring, where and when it occurs, depending on the location of the site, the associated risks, and the potential impact on surrounding areas and individuals.

REQUIREMENT	REQUIREMENT
	Photographic Requirements for Course Inclusion
	Incorporate a selection of photographs within the course materials to enhance learning and understanding. These photographs should display the key asbestos-containing material (ACM) product classes in various states of fragmentation within the soil, emphasising the challenges associated with locating and identifying them accurately.
	Include relevant photos that exemplify good and bad practices relating to sampling, on-site control measures, segregation, and containment. These visual aids will help to clearly illustrate the correct procedures and common mistakes to avoid during asbestos management and remediation projects, providing a practical perspective to the theoretical knowledge being imparted.

18. Required Course Content (Practical)

MODULE 6	DURATION: APPROXIMATELY 60 MINUTES
	Case Studies, Group discussions
	6.1 Include case studies of contaminated land and soils within the course to facilitate group discussions about the reasons behind the selected remediation actions. These studies should provide practical insight into the decision-making processes, challenges, and solutions involved in managing contaminated sites effectively.
	6.2 Additionally, incorporate real-life examples of successful prosecutions by the Health and Safety Executive (HSE), Environment Agency (EA), and Scottish Environment Protection Agency (SEPA) relating to breaches of regulations concerning asbestos in soils. These examples will highlight the legal implications and the importance of compliance with environmental and health safety standards in asbestos management.

MODULE 7	DURATION: APPROXIMATELY 45 MINUTES
	Developing a Materials Management Plan
	7.1 Incorporate a practical exercise on developing a Materials Management Plan (MMP) for handling contaminated land and soils. This exercise will guide participants through the essential components of an MMP, including assessing contamination levels, selecting appropriate remediation methods, and determining the logistics for removal or treatment of materials. Participants will also learn to document responsibilities, prepare for potential challenges, and ensure compliance with relevant environmental regulations. This practical component emphasises the importance of a structured approach to managing contaminated sites effectively and safely.