

Asbestos in Soils for Geo-Technical Persons (Undertaking Non-Licensed Work)

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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

Recognition and Grants



UKATA is an approved CITB 3rd Party Awarding Organisation for the Construction Training Register and Construction Training Directory. This UKATA syllabus has been mapped against the CITB standard and is available for automated grant payments to levy registered employers.

Training Type	Grant Tier	Grant Rate	Grant Code
Initial	1	£60	GET2839
Refresher	1	£30	GET2827



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.

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1. Course Title

Asbestos in Soils for Geo-Technical Persons (Undertaking Non-Licensed Work)

2. Introduction

This syllabus sets out the guidance issued by UKATA for the provision of asbestos in soils for geo-technical persons (undertaking non-licensed work) training for employees whose work will knowingly disturb asbestos containing materials (ACMs) contained or presumed in soils or below ground, and which is defined as non-licensable work or notifiable non-licensable work within the Control of Asbestos Regulations 2012.

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 equip tutors with both theoretical knowledge and practical skills necessary when undertaking work with non-licensed ACMs contained or presumed in soils or below ground. This includes those persons undertaking samples of soils for analysis. Sampling is defined as non-licensed work in the Control of Asbestos Regulations 2012 and supporting Approved Code of Practice, L143.

4. Occupational Relevance

Any persons carrying out non-licensed works (including sampling of soils), as laid down in CAR 2012, Reg 3(2). This would normally include, but is not limited to:

Site investigation engineers, geo-technical surveyors and similar who are likely to disturb potentially asbestos containing soils and sub-soils.

5. Duration

Minimum of 6 learning hours.

(This includes a minimum of 2.5 learning hours of practical training and 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 asbestos industry. This will be taken to include, surveying, analytical, removal, consultancy, training, management etc. and must be able to demonstrate a comprehensive practical working knowledge, within the asbestos industry, including its legislative requirements.
- Be able to demonstrate experience of delivering Non-Licensable 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.
- 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 Non-Licensed 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:	1:10 (theory & practical)
Virtual Classroom:	1:10 (theory) (refresher training only)

An additional tutor can assist with the practical training, or this element can be staggered, see Section 19.

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.

Annual refresher training is required for asbestos in soils for geo-technical persons (undertaking non-licensed work), and more frequent refreshers may be necessary if there are changes in work methods, equipment, or significant alterations in the type of work. Refresher courses are also recommended if any gaps in competency are identified.

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 Non-Licensed (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	Non-Licensed work with asbestos – HSE.
View	Managing and working with asbestos - Control of Asbestos Regulations 2012(CAR 2012) - Approved Code of Practice and guidance.
View	Asbestos essentials - A task manual for building, maintenance and allied trades of non-licensed asbestos work (HSG210).

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 Survey Guide
View	HSG 248 Asbestos: The Analysts Guide

16. Learning Outcomes

- ✓ Identify the presence of asbestos-containing materials (ACMs) in soil and sub-soils, including the origins and forms these materials might take when disturbed during geo-technical activities.
- ✓ Distinguish between non-licensed work and licensable work, particularly in the context of soil sampling and other geo-technical operations using guidelines and decision-making tools tailored for environmental conditions.
- ✓ Outline necessary control measures for safely conducting non-licensed work involving asbestos in soils, focusing on specific techniques suitable for geo-technical contexts.
- ✓ Implement strategies to manage exposure to asbestos during soil disturbances, utilising best practices for environmental safety and compliance with regulatory guidelines.
- ✓ Execute safe soil sampling and handling techniques that minimise the disturbance of ACMs during geo-technical assessments.
- ✓ Employ appropriate wetting techniques and use of PPE and RPE during tasks to minimise asbestos exposure.
- ✓ Understand comprehensive regulations governing asbestos in soils, focusing on the specific legal obligations under CAR 2012 and related environmental guidelines.
- ✓ Familiarise with the legal requirements for emergency procedures, personal protective equipment (PPE), and decontamination practices specific to geo-technical work.
- ✓ Develop and prepare risk assessments and site-specific plans of work, emphasising the safe management of asbestos in soils.
- ✓ Recognise emergency procedures for incidents such as fire, toxic gas release, or accidental asbestos disturbance.
- ✓ Apply practical skills in using various wetting techniques, and in the proper usage of PPE and RPE.
- ✓ Demonstrate competency in decontamination processes and disposal of asbestos waste in compliance with legal and safety standards.

17. Required Course Content – Theory

DURATION: APPROXIMATELY 30 MINUTES	
MODULE 1	Asbestos in soils origins
	1.1 A range of photographs of ACMs identified within the ground including broken, damaged, fragments and debris of insulation, AIB, textiles, AC and other composite materials.
	1.2 The concept of free fibre contamination.

DURATION: APPROXIMATELY 50 MINUTES	
MODULE 2	Legislation relating to non-licensed work with asbestos:
	2.1 Regulation 3 (2) <ul style="list-style-type: none"> • Why the work is non-licensed; to provide the learner with the knowledge of what work is non-licensed and what work is licensed and use of guidance documents such as CARSOIL – Licensed work decision flow chart, Figure 1. • Explanation of the analysis of samples to identify ACMs and free fibres and the requirement to use UKAS accredited laboratories. • Expansion of the definitions of NLW in the context of sampling and an overview of LW, NLW and>NNLW, this is to include reference to options for remediation of ACMs and contamination that can be found below ground level. • Explanation of the different types of works that could be undertaken and classified as NLW, including personnel involved namely, machine digging, hand digging, hand picking, machine driver requirements, banksman requirements.
	2.2 Regulation 5 <ul style="list-style-type: none"> • The need for employers to assess the work area and make presumptions as to the type of asbestos contained within the material.
	2.3 Regulation 6 <ul style="list-style-type: none"> • The need to make a suitable and sufficient assessment of exposure.
	2.4 Regulation 7 <ul style="list-style-type: none"> • The need to prepare a suitable and sufficient plan of work.
	2.5 Regulation 9 <ul style="list-style-type: none"> • The requirement for notification, when and how to notify>NNLW.
	2.6 Regulation 10 <ul style="list-style-type: none"> • The need for training when carrying out work on non-licensed work.
	2.7 Regulation 11 <ul style="list-style-type: none"> • How the employer should prevent exposure to employees when carrying out work with asbestos materials.
	2.8 Regulation 12 <ul style="list-style-type: none"> • Use of control measures.
	2.9 Regulation 13 <ul style="list-style-type: none"> • Maintenance of control measures.
	2.10 Regulation 14 <ul style="list-style-type: none"> • Provision and cleaning of personal protective equipment.
	2.11 Regulation 15 <ul style="list-style-type: none"> • Emergency procedures.
	2.12 Regulation 16

	<ul style="list-style-type: none"> Preventing the spread of asbestos, including; isolation of areas, cordoned-off areas, contaminated zones (red zones), access and egress points for personnel and machines, including the decontamination of machinery when exiting and personnel when exiting zones. This may involve the use of a decontamination unit and in-house procedures of the company undertaking the work should be relayed to the learners.
	2.13 Regulation 17 <ul style="list-style-type: none"> Cleanliness of premises and plant.
	2.14 Regulation 18 <ul style="list-style-type: none"> Designated areas – Asbestos Zones.
	2.15 Regulation 19 <ul style="list-style-type: none"> Air monitoring – the need for personal monitoring.
	2.16 Regulation 22 <ul style="list-style-type: none"> Health records and medical surveillance for NNLW.
	2.17 The difference between non-licensed works (NLW) and notifiable non-licensed works (NNLW) and the additional elements that will be required should NNLW work be undertaken. Also, how to notify, when to notify and include form ASBNNLW1.
	2.18 Hazardous Waste Regulations 2005 (as amended 2009) <ul style="list-style-type: none"> The need to dispose of asbestos waste as hazardous, the need to consign the waste and to hold a waste carriers licence when transporting asbestos waste.
	2.19 Work at Height Regulations 2005 <ul style="list-style-type: none"> The need to implement the relevant safety controls when the non-licensed works with asbestos are carried out at height.
	2.20 Manual Handling Regulations 1992 <ul style="list-style-type: none"> The need to handle safely materials and waste generated from the non-licensed works being undertaken.
	2.21 Control of Substances Hazardous to Health 2002 <ul style="list-style-type: none"> To ensure data sheets are referenced to compile suitable and sufficient risk assessments when using materials defined by COSHH.
	2.22 The need to have suitable public liability and employer’s liability insurance when working with non-licensed asbestos materials.

	DURATION: APPROXIMATELY 10 MINUTES
MODULE 3	EM5 Wetting asbestos materials:
	3.1 Explain the critical role of surfactants and detergents in suppressing asbestos fibres during removal and other work procedures. This includes detailing various wetting techniques such as spray wetting, the use of water bowsers, and atomizers to effectively distribute wetting agents. Additionally, cover the appropriate mixing ratios for creating effective wetting solutions and describe different types of wetting techniques, such as low-pressure and high-pressure spraying, focusing on their specific applications and benefits in safely managing asbestos materials.

	DURATION: APPROXIMATELY 30 MINUTES
MODULE 4	EM6 Personal Protective Equipment (including RPE):
	4.1 Discuss the types of PPE available and over in detail their use, maintenance, cleaning and disposal. This should include footwear, coveralls, respirators and gloves as a minimum. It should also explain the difference between disposable RPE and re-useable RPE and the face fit testing available and the need for such tests. This should also include putting on and taking of PPE practically.

	DURATION: APPROXIMATELY 10 MINUTES
MODULE 5	EM7 Using damp rags to clean surfaces of minor asbestos contamination:

MODULE 5	<p>5.1 Explain the procedures and equipment required to clean equipment after asbestos works have been carried out, it should involve explaining the types of cleaning equipment available, and how to undertake this to prevent further spread of asbestos.</p>
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MODULE 6	DURATION: APPROXIMATELY 10 MINUTES
	<p>EM8 Personal decontamination:</p> <p>6.1 Discuss in detail the need for decontamination after carrying out asbestos work, it should detail the process and procedure in the correct order. This element is also subject to practical demonstration by the tutor and learner. Include isolation of areas, cordoned-off areas, contaminated zones, access and egress points for personnel, this may involve the use of a decontamination unit and in-house procedures of the company undertaking the work should be relayed to the learners.</p>

MODULE 7	DURATION: APPROXIMATELY 10 MINUTES
	<p>EM9 Disposal of asbestos waste:</p> <p>7.1 Explain the correct bagging sequence for the disposal of asbestos waste, the transportation of asbestos waste from site to a safe place such a licensed transfer station. This should also include reference to the licence to carry waste, consignment notes, compartmentation and also the non-waste framework directive (NWFDD).</p>

MODULE 8	DURATION: APPROXIMATELY 10 MINUTES
	<p>EM0 Risk assessment and plan of work:</p> <p>8.1 The need to develop and prepare a suitable assessment and site-specific plan of work covering the specifics relating to groundwork disturbances, including the strategic use of hand removal and machine removal techniques. The risk assessment should also cover other workplace hazards that may require additional control measures.</p>

MODULE 9	DURATION: APPROXIMATELY 10 MINUTES
	<p>EM1 Emergency procedures:</p> <p>9.1 Explain the requirement to have specific and general emergency procedures in place to include what to do in the event of: fire, toxic gas release, an accident (major or minor), an accidental disturbance of asbestos, splitting or damaging double bagged/wrapped waste.</p>

18. Required Course Content - Practical

As defined in CAR 2012, L143 paragraph 244, "Where any employees are required to use plant and equipment or carry out work activities then practical training (i.e. giving someone the opportunity to try and practice something for themselves rather than having it explained or demonstrated to them)" must be given.

While undertaking the elements below, it is understood that these elements can be merged together to simulate the process on site from arrival, PPE, set up, undertaking the work, applying the control measures, bagging waste, cleaning down and decontamination. **NB: all tasks undertaken must be carried out on non-asbestos containing materials.**

MODULE 10	DURATION: APPROXIMATELY 30 MINUTES
	<p>Use of wetting techniques:</p> <p>10.1 This method should be used to simulate the use of spray wetting and how it is applied and used when undertaking groundwork disturbance.</p>

MODULE 11	DURATION: APPROXIMATELY 80 MINUTES
	<p>Use of PPE and RPE:</p> <p>11.1 The tutor should practically demonstrate how to examine and check the PPE before use, how to wear the equipment and remove after the work has been completed. The learners should also be given the opportunity to practice putting on and removing, RPE in particular, and how to store reusable equipment.</p>

MODULE 12	DURATION: APPROXIMATELY 15 MINUTES
	<p>Bagging waste:</p> <p>12.1 The tutor should practically demonstrate how to bag and double bag asbestos waste and PPE in the correct sequence. The learner should be given the opportunity to examine, use and seal the bags practically.</p>

MODULE 13	DURATION: APPROXIMATELY 25 MINUTES
	<p>Decontamination:</p>

13.1 While wearing RPE and PPE, the tutor should demonstrate the correct sequence of decontamination as detailed in EM8. The learners should be given the opportunity to undertake the practical decontamination procedure as detailed in EM8.

19. Guidance for Organising Practical Training

This guidance is designed to assist in the effective delivery of the practical components of the Non-Licensable Work with Asbestos training. Its aim is to offer a structured approach to the practical sessions, ensuring all learners gain the necessary hands-on experience. While the recommendations provided are not mandatory, they serve as a helpful guide to facilitate high-quality practical training.

Practical Training Overview

The practical training, as detailed in this course syllabus, spans approximately 2 hours 30 minutes. It comprises four essential hands-on tasks that are crucial for all learners to perform:

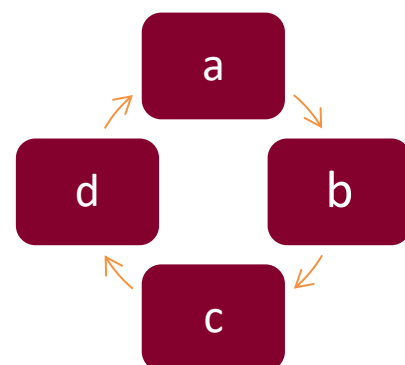
- Use of wetting techniques
- Use of PPE and RPE
- Bagging of asbestos waste
- Decontamination

To manage the practical training efficiently, it is recommended that learners work in pairs, rotating through each of the tasks. This ensures comprehensive exposure to all critical aspects of non-licensable work with asbestos.

Example Rotation:

- Pair A sets up and applies wetting agents.
- Pair B is responsible for correctly checking and donning PPE and RPE.
- Pair C demonstrates the correct waste disposal techniques.
- Pair D proceeds with personal decontamination procedures.

After completing these tasks, pairs rotate to the next task, allowing each learner to gain hands-on experience with all four practical components.



Adjustments for Different Numbers of Learners:

Should the number of learners be less than the maximum expected, the rotation of tasks can be adjusted accordingly. This ensures that all tasks are covered thoroughly by each participant. The collaborative rotation method allows learners to assist and learn from one another, under the careful supervision of the tutor.

Task-Specific Considerations:

The practical tasks correspond to the theory segments outlined in the relevant EM sections of Asbestos Essentials. Not all tasks may be applicable to each learner's job role. Tutors will customise the practical training and certification to suit the specific needs of the learners.

This structured approach to practical training ensures that learners not only learn but also apply key techniques and practices for safe non-licensable work with asbestos.