



GRAHAM O'MAHONY

BSc (HONS)

CONTAMINATION EXPO 2018
SEPTEMBER 2018

Asbestos Training – As clear as mud.....!!!!

What training do I need..???

Is it awareness of NLW..??



As clear as mud!!!!!!!

I only drive a digger...don't apply to me..!!!

Do I need to be trained..??

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Scope

To look at training available

To look at the training needs for groundworkers

Identify the correct training course

Is there a need for practical training?



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Current Training Available (L143)

- **asbestos awareness;**
.....disturb the fabric of a building.....?????
- **non-licensable work with asbestos including>NNLW;**
.....undertaking NLWHSG 210.....task manual
- **licensable work with asbestos.**
.....undertaking work with licensable materials e.g. AIB.....?????

Mainly aimed at the construction worker and building contractor...but what about the contamination in soils...?



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Groundworkers that require specific training:

- land surveyors
- geo-environmental consultants
- ground investigation workers;
- groundworkers;
- plant operators;
- land remediation contractors;

The above personnel will see asbestos in a very different state.



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UKATA Training Available

Asbestos in Soils (Awareness) (MS008)

- Asbestos awareness
- Asbestos in Soil Origins
 - Demolition
 - Fly Tipping
 - Manufacturing
- Identification
 - Sampling Strategies
 - Soil Analysis
- Soil Disturbance
 - Accidental, Suspicious material
 - Planned Work
- Remediation options

Supervisors and trades personnel, including trainees, site managers/supervisors/agents, site remediation employees, construction workers, ground workers, plant and machinery operators, utilities, and other such professionals.

1 day duration

Asbestos in Soils (MS009)

- Asbestos awareness
- Legislation
 - CAR 2012
 - CDM 2015
 - EPA
- The Site Survey
 - Sampling, trenches, boring holes
 - Soil Analysis
- Materials Management Plan
 - Development, proposals, options
- Inadvertent Identification
- Planned work, Remediation
- Case Study

Those managing sites, clients, client's agent, the principal designer, the principal contractor, HSEQ managers/advisors and any contractor's employees responsible for excavations, on-site remediation, site investigations and the disposal of waste from site.

1 ½ day duration

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Certification by UKATA

UKATA

Certificate of Training



This certificate is awarded to
EXAMPLE NAME

Who attended and passed by examination the
ASBESTOS AWARENESS IN SOILS COURSE

In accordance with Regulation 10 of the Control of Asbestos Regulations 2012 and supporting
ACoP and guidance L143 managing and working with Asbestos
(including UKATA Asbestos Awareness) on

Friday 31st August 2018

(expiry Friday 30th August 2019)



Certificate No: 1221589

UKATA

UKATA No: 142ABC
Address: Markham Vale Environment Centre, Markham
Lane, Markham Vale, Chesterfield, S44 5HY
Phone: 01246 824437
Trainer: UKATA

To check the validity of this certificate please visit www.ukata.org.uk to use the online validation tool.

UKATA

Certificate of Training



This certificate is awarded to
EXAMPLE NAME

Who attended and passed by examination the
ASBESTOS IN SOILS COURSE

In accordance with Regulation 10 of the Control of Asbestos Regulations 2012 and
supporting ACoP and guidance L143 managing and working with Asbestos
(including UKATA Asbestos Awareness) between

Wednesday 29th August 2018 and Friday 31st August 2018

(expiry Wednesday 28th August 2019)



Certificate No: 1221578

UKATA

UKATA No: 142ABC
Address: Markham Vale Environment Centre, Markham
Lane, Markham Vale, Chesterfield, S44 5HY
Phone: 01246 824437
Trainer: UKATA

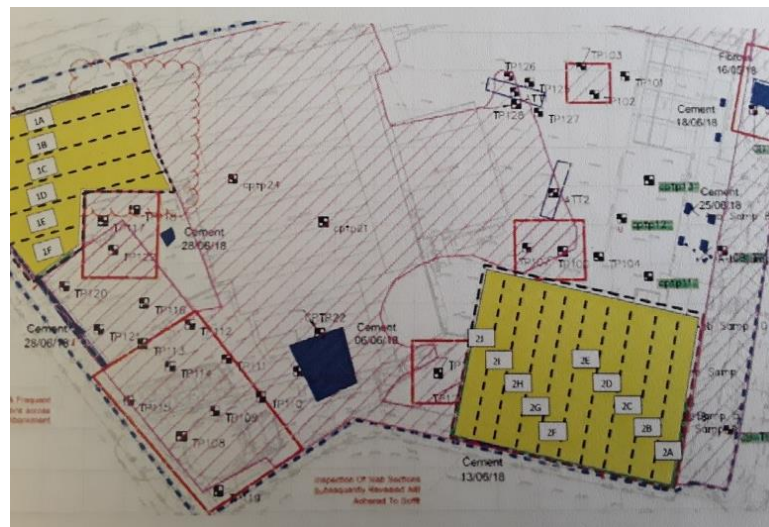
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Asbestos Training – As clear as mud.....!!!!

The courses that were developed by UKATA were primarily aimed at the professional dealing with asbestos in soils and providing clients with a better understating of how to deal with asbestos contaminated land.

Too much for the average groundworker.....???

Specific certification required....



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**For those undertaking NLW,
the guidance generally to
follow is HSG 210.**

There are two main sections:

EM – Equipment and Method

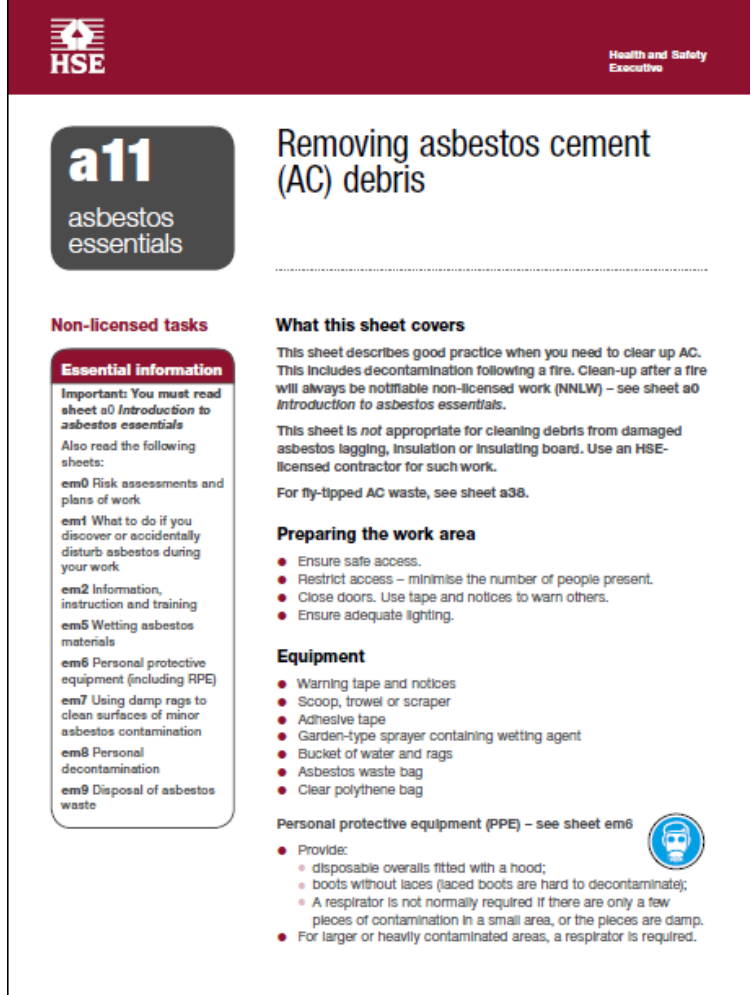
A Sheets – Various tasks



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The closest A sheet is A11 – which refers to removing asbestos cement debris

Most of the EM series will be used including:
EM5 – Wetting
EM6 – PPE
EM8 – Decontamination
EM9 - Waste



HSE Health and Safety Executive

a11
asbestos essentials

Non-licensed tasks

Essential information
Important: You must read sheet a0 Introduction to asbestos essentials
Also read the following sheets:
em0 Risk assessments and plans of work
em1 What to do if you discover or accidentally disturb asbestos during your work
em2 Information, instruction and training
em5 Wetting asbestos materials
em6 Personal protective equipment (including RPE)
em7 Using damp rags to clean surfaces of minor asbestos contamination
em8 Personal decontamination
em9 Disposal of asbestos waste

Removing asbestos cement (AC) debris

What this sheet covers
This sheet describes good practice when you need to clear up AC. This includes decontamination following a fire. Clean-up after a fire will always be notifiable non-licensed work (NNLW) – see sheet a0 Introduction to asbestos essentials.
This sheet is not appropriate for cleaning debris from damaged asbestos lagging, insulation or insulating board. Use an HSE-licensed contractor for such work.
For fly-tipped AC waste, see sheet a38.

Preparing the work area

- Ensure safe access.
- Restrict access – minimise the number of people present.
- Close doors. Use tape and notices to warn others.
- Ensure adequate lighting.

Equipment

- Warning tape and notices
- Scoop, trowel or scraper
- Adhesive tape
- Garden-type sprayer containing wetting agent
- Bucket of water and rags
- Asbestos waste bag
- Clear polythene bag

Personal protective equipment (PPE) – see sheet em6

- Provide:
 - disposable overalls fitted with a hood;
 - boots without laces (laced boots are hard to decontaminate);
 - A respirator is not normally required if there are only a few pieces of contamination in a small area, or the pieces are damp.
- For larger or heavily contaminated areas, a respirator is required.

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Dependent of the site, the initial site survey to determine if asbestos is present and to what risk, additional decontamination training may also be required....



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Where additional decontamination procedures and DCU's will be required, these will be determined by the site and the PPE worn, HSG 247 details the decontamination for LARC's, however slight amendments to these will be required



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UKATA Training Available

Asbestos Awareness For Ground Workers (MS010)

- **Asbestos awareness** (minus ref to buildings & UKATA emergency procedures)
- **Asbestos in Soil Origins**
 - Demolition
 - Fly Tipping
 - Manufacturing
- **What to look for, examples of ACM**
 - AC, AIB, textiles, debris etc.
- **Soil Disturbance**
 - Accidental, Suspicious material
- **Emergency Procedures**
 - Site investigation engineers, utilities installation and maintenance engineers, ground works operatives, including ground drilling and manual excavations, fencing installation, on site remediation and waste disposal, or any other persons likely to disturb asbestos containing materials as defined in CAR 2012.

3 - 4 hours day duration

Non-licensable work including NNLW For Groundworkers (MS011)

- **Asbestos awareness** (minus ref to buildings & UKATA emergency procedures)
- **Legislation**
 - Definitions of LW, NLW, NNLW
- **The Site Zones**
 - Clean areas and contaminated areas
 - Air Monitoring (PM and BM)
- **Site Operations**
 - Removal options
 - Wetting techniques
 - RA/POW
- **Practical**
 - PPE, RPE
 - Control Measures
 - Decontamination (use of DCU??)
 - Waste and bagging arrangements
- Site investigation engineers, utilities installation and maintenance engineers, ground works operatives, including ground drilling and manual excavations, fencing installation, on site remediation and waste disposal, or any other persons likely to carry out work on asbestos containing materials as defined in CAR 2012

1 ½ day duration

Asbestos Training – As clear as mud.....!!!!

Certification by UKATA

UKATA

Certificate of Training



This certificate is awarded to
EXAMPLE NAME

Who attended and passed by examination the

ASBESTOS AWARENESS FOR GROUNDWORKERS

In accordance with Regulation 10 of the Control of Asbestos Regulations 2012 and supporting ACoP and guidance L143 managing and working with Asbestos on

Friday 31st August 2018
(expiry Friday 30th August 2019)



Certificate No: 1221570

UKATA

UKATA No: 142ABC
Address: Markham Vale Environment Centre, Markham Lane, Markham Vale, Chesterfield, S44 5HY
Phone: 01246 824437
Trainer: UKATA

To check the validity of this certificate please visit www.ukata.org.uk to use the online validation tool.

UKATA

Certificate of Training



This certificate is awarded to
EXAMPLE NAME

Who attended and passed by examination the

NON-LICENSABLE WORK WITH ASBESTOS INCLUDING>NNLW FOR GROUNDWORKERS

In accordance with Regulation 10 of the Control of Asbestos Regulations 2012 & Para's 235, 238, 243 & 244 as detailed in the supporting ACoP & guidance L143 & the EM training modules as detailed in HSG 210 (including UKATA Asbestos Awareness) on

Thursday 30th August 2018
(expiry Thursday 29th August 2019)



Certificate No: 1221574
Modules Passed

1	2	3	4	5	6	7	8	9	10
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UKATA

UKATA No: 142ABC
Address: Markham Vale Environment Centre, Markham Lane, Markham Vale, Chesterfield, S44 5HY
Phone: 01246 824437
Trainer: UKATA
Training Centre: UKATA HQ

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UKATA pride itself on the need for delegates to understand their work and the fact that practical training plays a huge part in delegates working safely.

UKATA members offer AA E Learning, however they do not offer NLW training on line.

A recent study by UKATA member Asbestos Training Limited highlighted the need for continuous practical training.

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Scope

To analyse the knowledge of delegates undertaking NLW refresher training both theory and practical knowledge.

This was undertaken on a range of delegates ranging from various construction trades, multi trades, groundworkers, civil engineers etc.

72 in total took part



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Aim

The aim was to assess the need, or not, for refresher practical training for experienced and non-experienced workers undertaking work on ACMs

The reason behind this study was to identify how much information was forgotten with regard to the practical aspects of trades and groundworkers undertaking work with ACMs



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The questionnaire was broken down into:

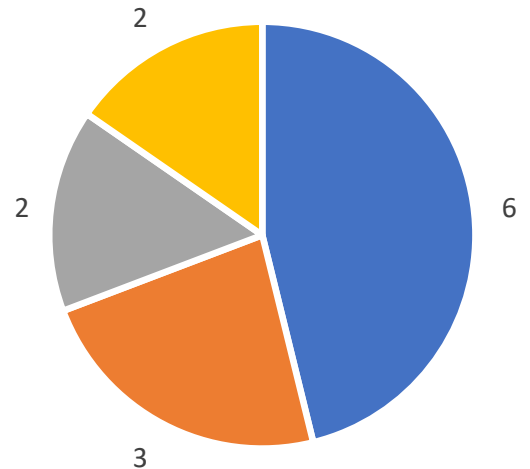
35 questions in total

22 questions on the theory aspects

13 questions on the practical aspects

- **6 questions on control measures**
- **3 questions on PPE/RPE**
- **2 questions on waste**
- **2 questions on decontamination**

Questions asked on Practical Knowledge



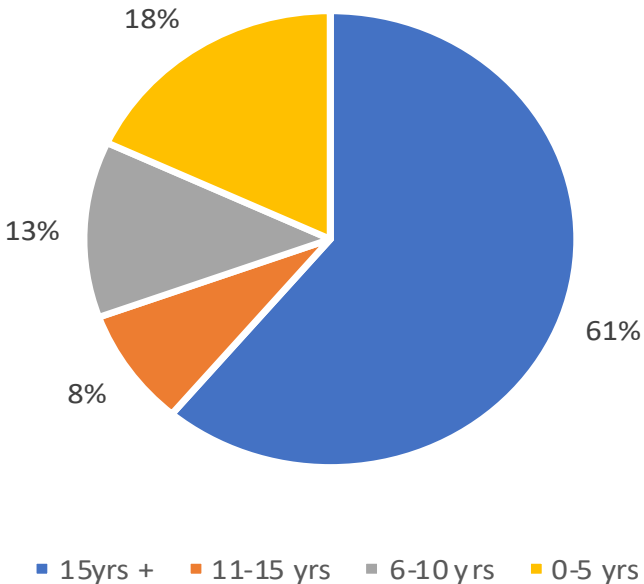
■ Control Measures ■ PPE/RPE ■ Decontamination ■ Waste }



Source – Asbestos Training Limited 2018 ©

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Years in Construction Industry



A range of experiences in the construction sector were identified

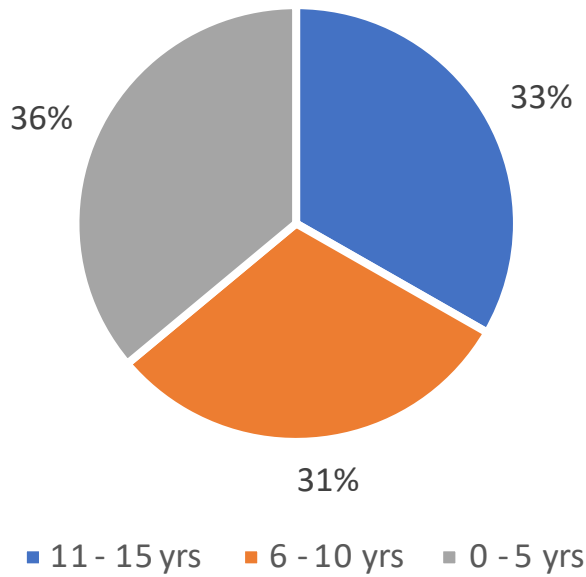
The majority (61%) had been in the industry for more than 15 years.



Source – Asbestos Training Limited 2018 ©

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How many years been undertaking work with ACM's



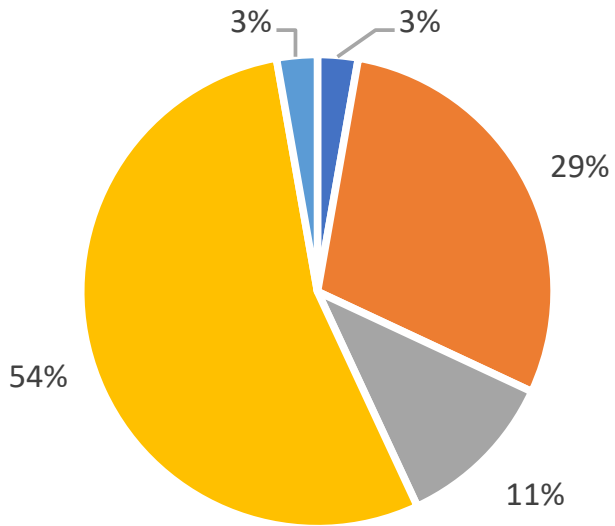
The findings showed that 33% have been working with ACMs for nearly 15 years.



Source – Asbestos Training Limited 2018 ©

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How regular work with ACM's in undertaken



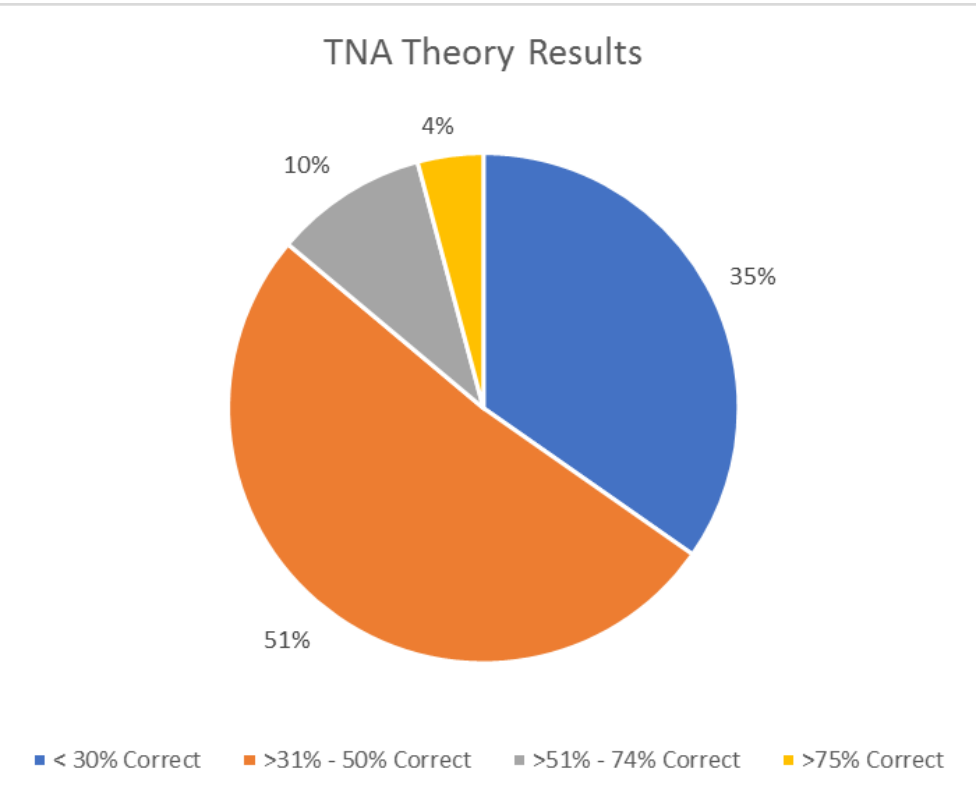
■ Daily ■ Regular >4 jobs per year ■ Never ■ Occasional <4 jobs per year ■ None

Only 3% worked with ACMs daily, and 54% undertake less than 4 jobs per year.



Source – Asbestos Training Limited 2018 ©

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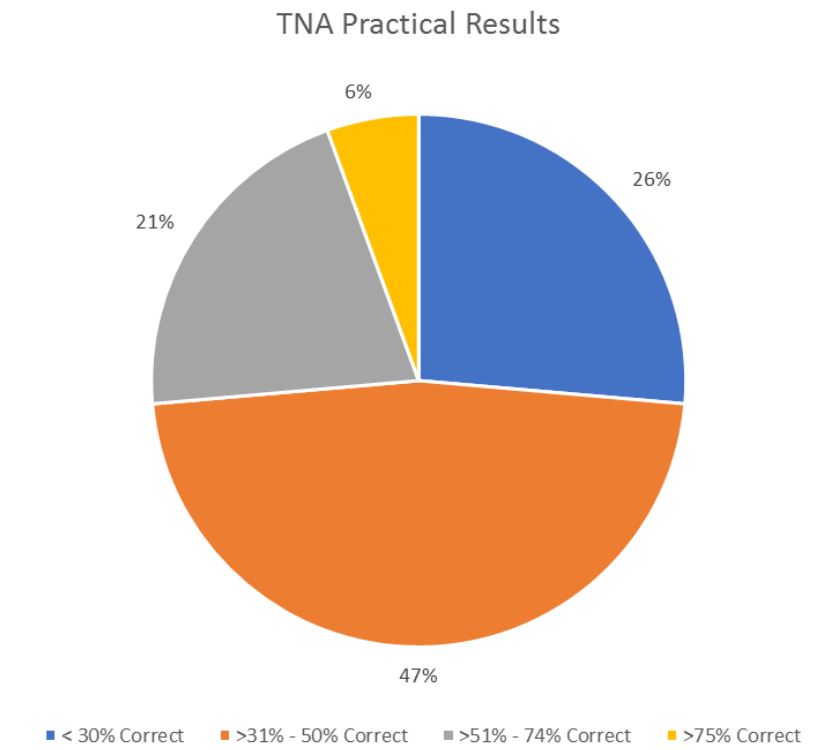


From the 22 theory questions that were asked 86% of the delegates got less than 50% correct.....in 12 months so much was forgotten



Source – Asbestos Training Limited 2018 ©

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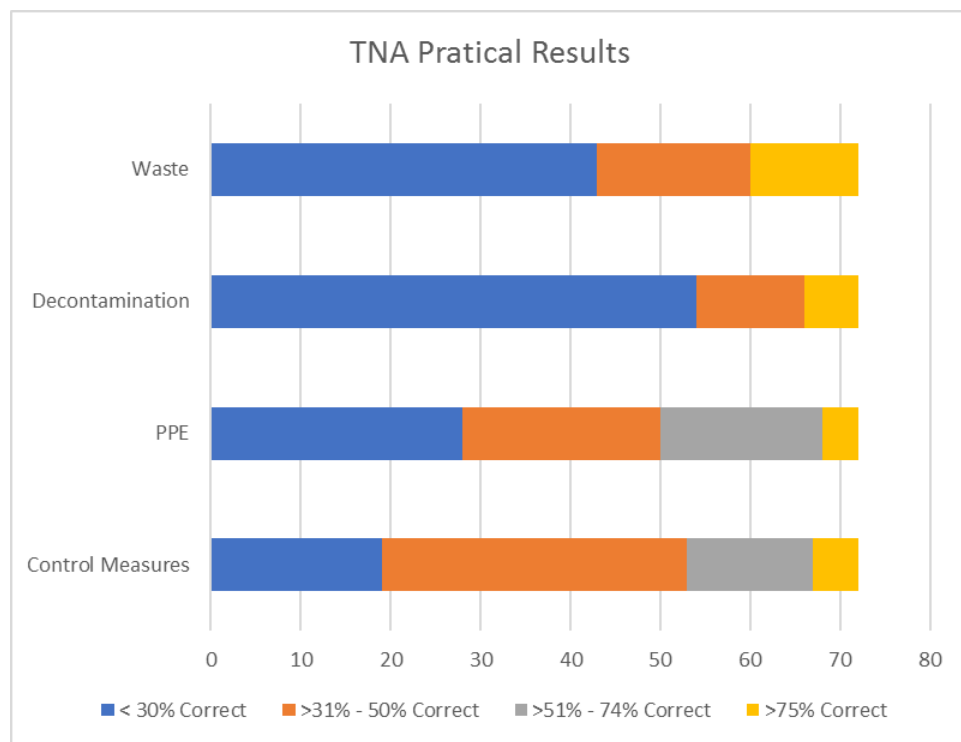


From the 13 practical questions that were asked 73% of the delegates got less than 50% correct only 6% achieved more than 75% of the correct answers....remembering that the tasks undertaken are very practical.....



Source – Asbestos Training Limited 2018 ©

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Decontamination – 91% of delegates obtained less than 50% correct

Waste – 83% of delegates obtained less than 50% correct

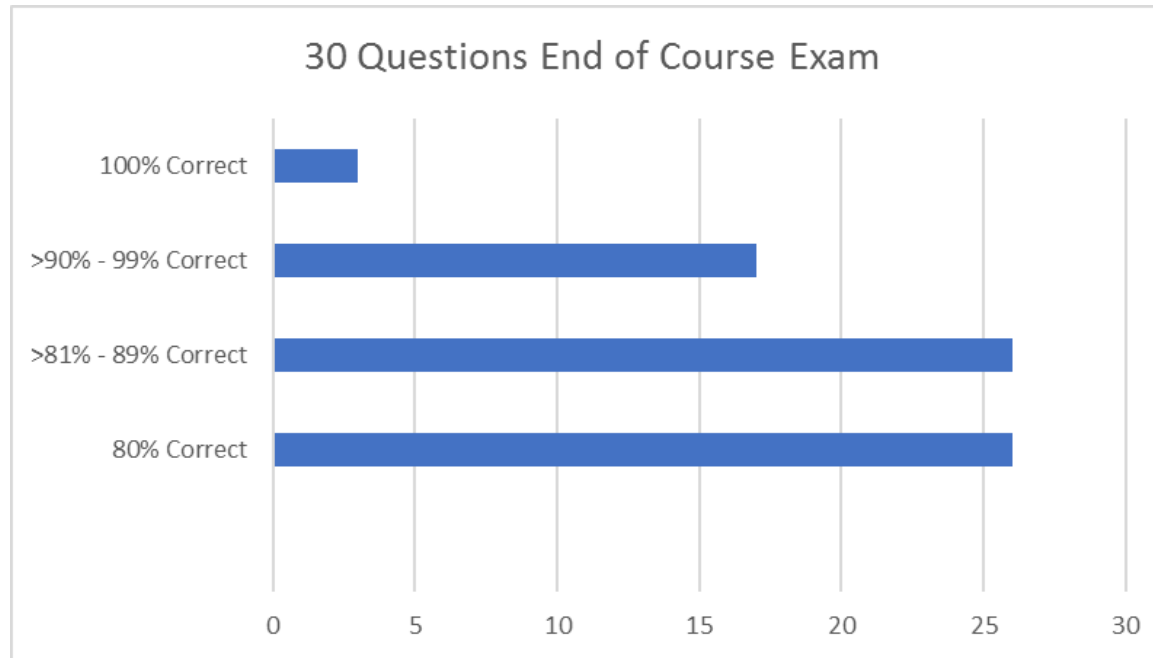
PPE/RPE – 69% of delegates obtained less than 50% correct

C/Measures – 72% of delegates obtained less than 50% correct



Source – Asbestos Training Limited 2018 ©

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Following on from the training, the results of the end of course exam showed the following results.

26 = 80% pass

26 = 81% - 89% pass

17 = 90% - 99% pass

3 = 100% pass



Source – Asbestos Training Limited 2018 ©

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One typical example is the following delegate:

**A Groundworker with 15 years experience in the industry,
5 years experience working with asbestos occasionally**

Obtained an average result of 31% of the practical questions, not understanding the correct decontamination, PPE procedures and waste, however their knowledge of control measures was good.

This demonstrates the need for correct face to face practical training to remind the delegate of the importance of the correct methods.



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Conclusions

Groundworkers and other trades who regularly work with asbestos still fail to recall the correct practical procedures when undertaking asbestos work activities.

Even experienced workers who have been undertaking NLW, also fail to remember, fully, the correct practical procedures.

The correct decontamination has been highlighted as a huge failing

The need to assess delegates practical skills is paramount to ensure correct work practices are implemented.



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UKATA – Practical Training Requirements

UKATA's position is that practical training is very important and emphasises this with their NLW courses for ground workers, experienced or not, the practical training plays a huge importance with the training of ground workers and other trades.



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Thank you for your time.

Any EASY questions.....

Graham O'Mahony
graham@asbestostraininglimited.com
01763 787 150
0755 488 6080