



Alan Murray
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President

BSiF – RPE Construction Sites and The Fit2Fit Scheme



OHSI
OCCUPATIONAL HYGIENE
SOCIETY OF IRELAND

The British Safety Industry Federation



➤ **360 Member companies focused on PPE and Safety Equipment, including Manufacturers – Distributors – Specialist Service Providers – Test Certification and Approval Bodies in the UK**

➤ **BSiF administer and manage - *fit2fit* ACCREDITED RPE Fit Test Provider in the UK and under licence in 7 countries in the EU**



➤ **BSiF administer and manage the Registered Safety Supplier Scheme**



➤ **BSiF facilitate the industry Special Interest Groups**



BSiF CLEAN AIR? TAKE CARE!

Deciding how to approach breathing hazards at work - Do you need Respiratory Protection, and what types are available?

CLEAN AIR? TAKE CARE!

What types of filter are there? There are two types of filter: one for particles and one for gases and vapours. Particles are measured by their size, and gases and vapours are measured by their chemical nature. The most efficient trapping of the highest percentage of particles. Gas and vapour filters work differently. They are labelled with colour and letter codes to show the type of gas they protect against. They are also labelled with a number to show how long they will last. Gas filters use activated carbon to adsorb gas or vapour molecules and allow air to pass through. Not every gas can be filtered so careful selection is necessary. Combined filters are also available, and safety vests. They protect against particles, gases and vapours. They are also available in both types of filter media, and they carry both markings.

How do I select the right respirator? There is no online RPE selector available, developed by the HSE and the Scottish Centre for Health Hygiene, which takes you step by step through the selector process. <http://www.healthandworkings.com/rpe-selector> and there is a lot more information on using RPE in the workplace at <http://www.hse.gov.uk/respiratory-protect.htm>. Equipment, RPE manufacturers and suppliers can also provide a full assessment to help you make the right selection. For some applications, e.g. spraying, the correct choice, the guidance clearly describes the type of RPE to be used.

Is there anywhere you can't use filter respirators? Filter respirators have limitations. They should never be used before the conditions have been assessed, or if the hazard could become more severe unexpectedly, or if the work area is confined or enclosed to the extent that it is difficult to ventilate. Remember that respirator filters work by capturing breathing hazards from the air, allowing clean air to pass through to the wearer. As a filter respirator, the filter will still remove the contaminant but there won't be enough clean air left to breathe. There are circumstances in which Breathing Apparatus would be necessary. If you need to use RPE then you should ensure that your workplace is involved in its selection and it works with any other safety equipment they have to use or wear. Selecting and using the right type and model is only the first step, users should be fit tested if applicable, fully trained in its use and if it is reusable they will also need facilities and training to clean, maintain and store it.

If you think there is a breathing hazard at work, get it checked out. It will save lives in the long run.

Our stakeholders and supporters offer their own information and campaign material on respiratory hazards:
 IOSH: <http://www.iosh.co.uk/NTL/NTLHome/About-NTL.aspx>
 HSE Health Scotland: <http://www.youtube.com/watch?v=GR0JkU13BC0>
 BOHS: www.bohs.org.uk
 SGIUK: <http://www.safetyprofessionals.org.uk/info/2013/sgis-reference-cards-breathing.pdf>
 You can download a workplace poster, a presentation, a tool-box talk and find links to further information here: <http://www.bsif.co.uk/bsif-ign-uk/clean-air>
 Please let us know if you found this information useful.
 If you have any comments visit www.bsif.co.uk or email enquiries@bsif.co.uk

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 Tel: 01462 283741 Email: enquiries@bsif.co.uk

A BSIF campaign on behalf of the safety industry and supported by:
 HSE TUC IOM BOHS IOSH SIRI

We have a wide competency agenda and communication policy but we've always had a greater purpose which is to reinforce the perception & importance of "Health & Safety".

We want the media, and the country to recognise safety and health as a positive force for good where we all take pride in Safety and Health



WORKING TOGETHER IN SAFETY



Campaigns



QR Codes for BSIF Campaigns



[Download Centre | BSIF](#)

Putting the Health into Health and Safety in Construction



Fortunately, fatal injuries in the workplace have been decreasing in the past two decades, however the number of health problems linked to exposures at work is a major concern.

3M and the Construction Dust Partnership are showing their support for Occupational Health by highlighting this issue.



SAFETY

144 workers were killed at work in Great Britain in 2017/18; of these 38 were in the construction industry¹

Main accident types for workers across industries²

35	Falls from a height
26	Struck by moving vehicle
23	Struck by moving object
16	Trapped by something collapsing/overturning
13	Contact with moving machinery

HEALTH

1.4 million workers suffering from work-related ill health in 2017/18³

12,000 lung disease deaths each year estimated to be linked to past exposures at work³

251,000 new cases of work-related ill health leading to 7 or more days off work (2015/16 – 2017/18)⁴

12,000 deaths⁵

Occupational lung diseases contributing to estimated annual current deaths

32%	Chronic Obstructive Pulmonary Disease (COPD)
22%	Non-asbestos-related lung cancer
20%	Mesotheliomas
20%	Asbestos-related lung cancer
5%	Other disease

CONSTRUCTION

38 fatal injuries to workers in 2017/18⁶

The HSE state that **Silica** is the biggest risk to construction workers after asbestos. Heavy and prolonged exposure to respirable crystalline silica can cause lung cancer and other serious respiratory diseases like Silicosis⁶

The HSE estimate Silica was responsible for the death of over **500** construction workers in 2005⁶

The amounts needed to cause this damage is tiny, the most you should be inhaling during a day after using the right controls is shown next to the penny⁶

Each year, around **3,000** construction workers suffer with breathing and lung problems they believe were caused/made worse at work⁷

Top 5 causes of fatal injuries

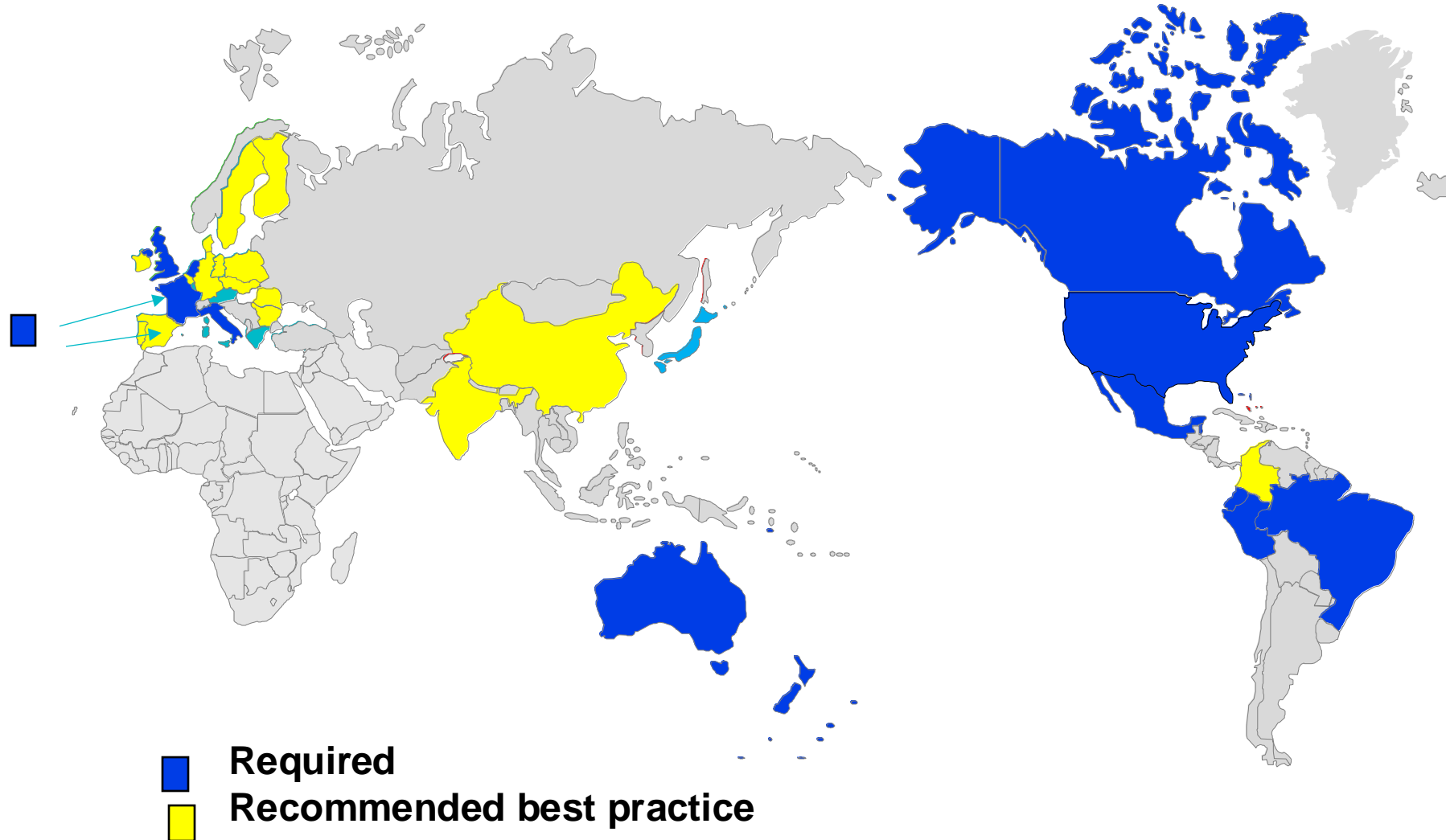
48%	Full from height
12%	Trapped by something collapsing
11%	Struck by object
9%	Struck by moving vehicle
6%	Contact with electricity

Silica dust

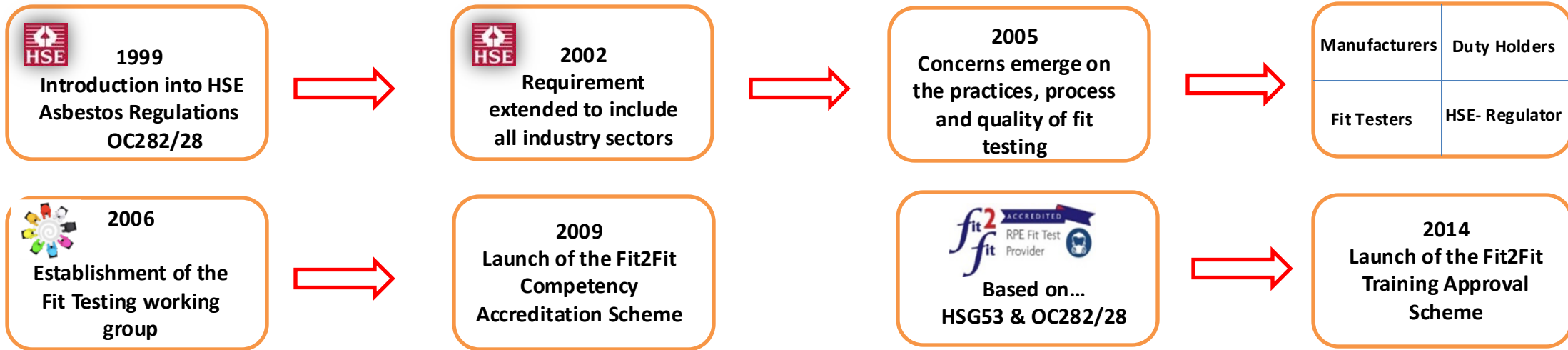


References

Global Fit Testing Landscape



Evolution of Face Fit Testing and Fit2Fit



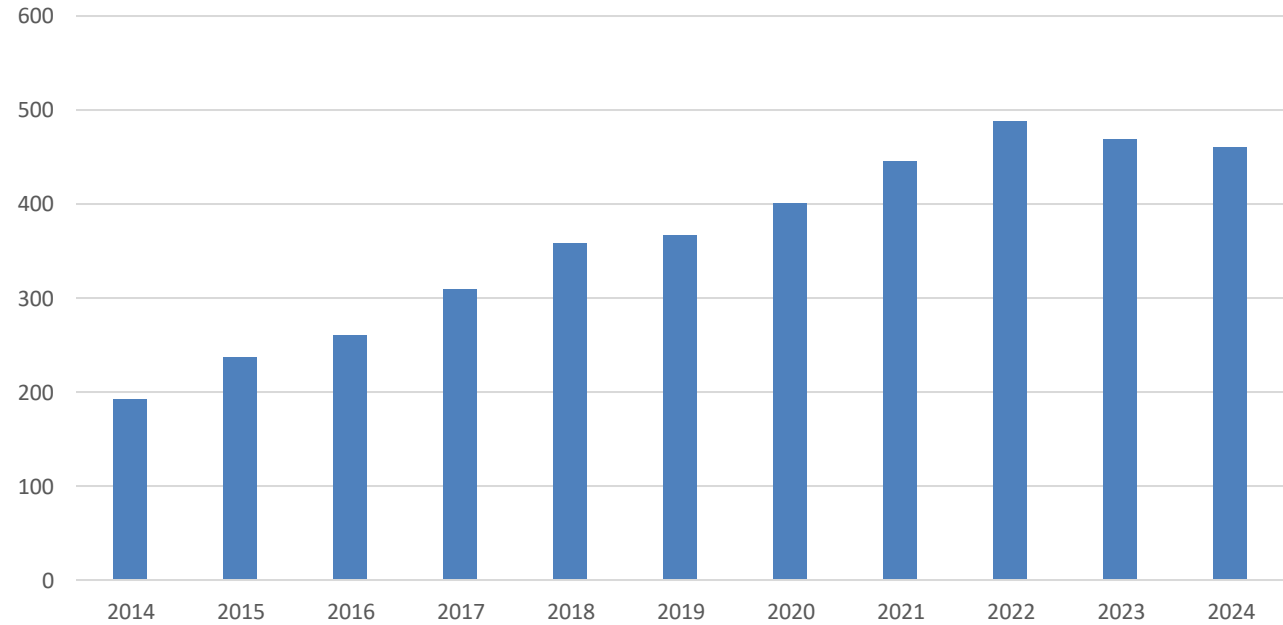
Competent Face Fit Capacity in the UK



New FFRED video completed with HSE for sign off



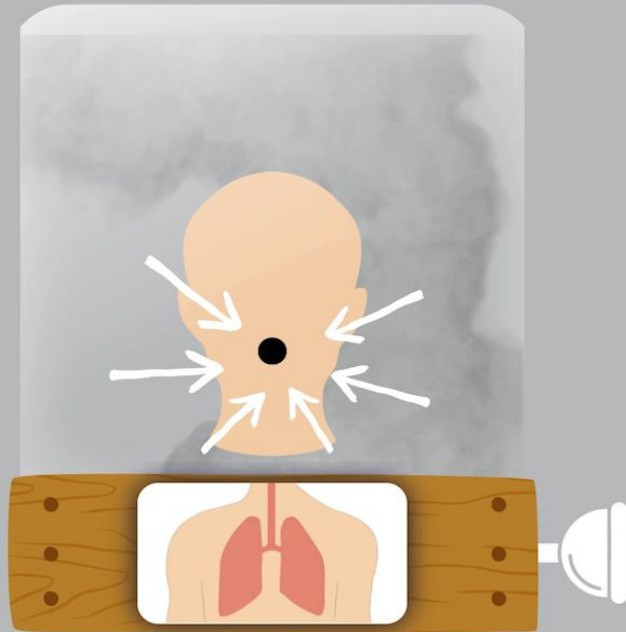
Accredited Fit Testers



**468 at
September**

Exams now moving to digital

Video Demonstration



European Developments with Face Fitting Competency



Under consideration!



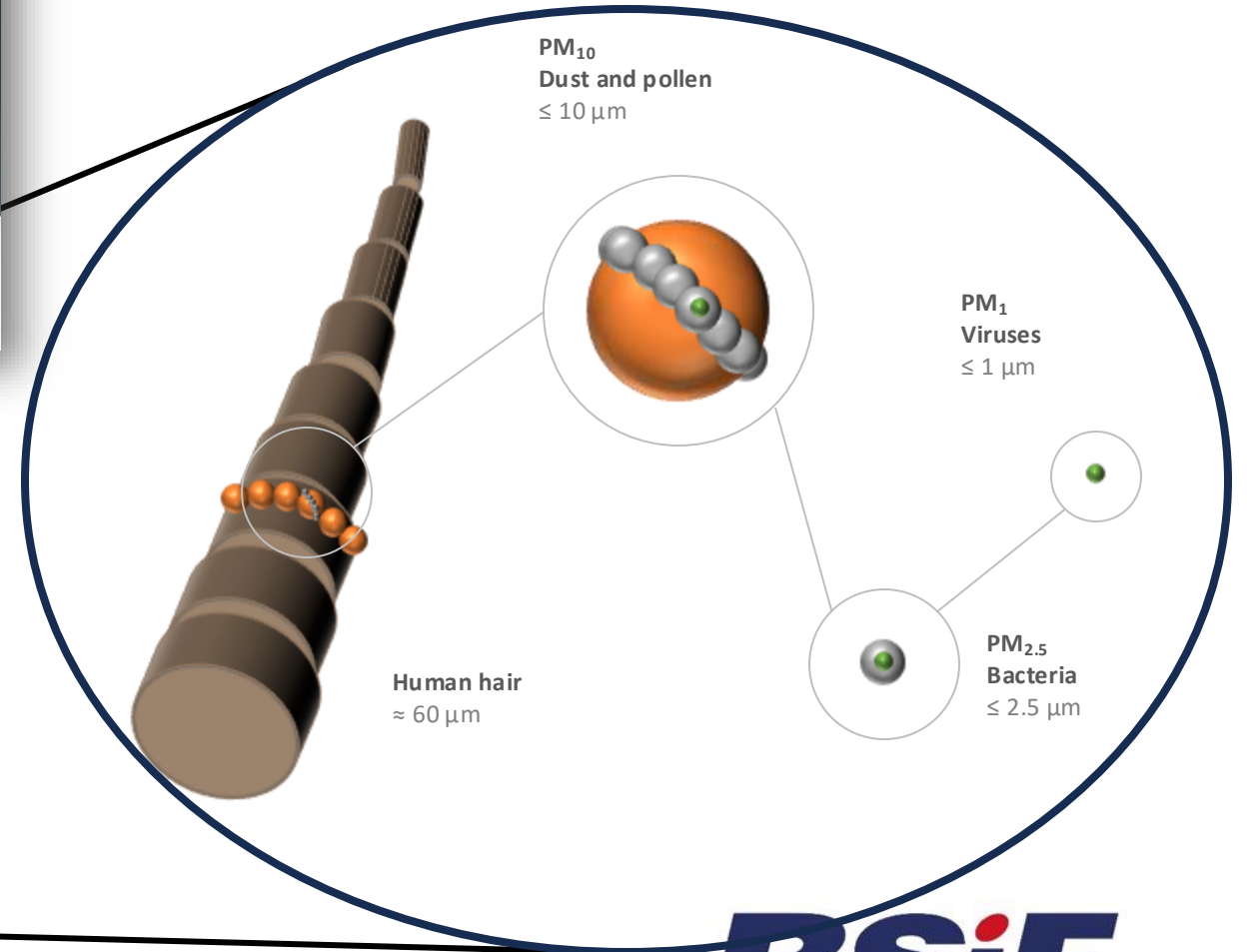
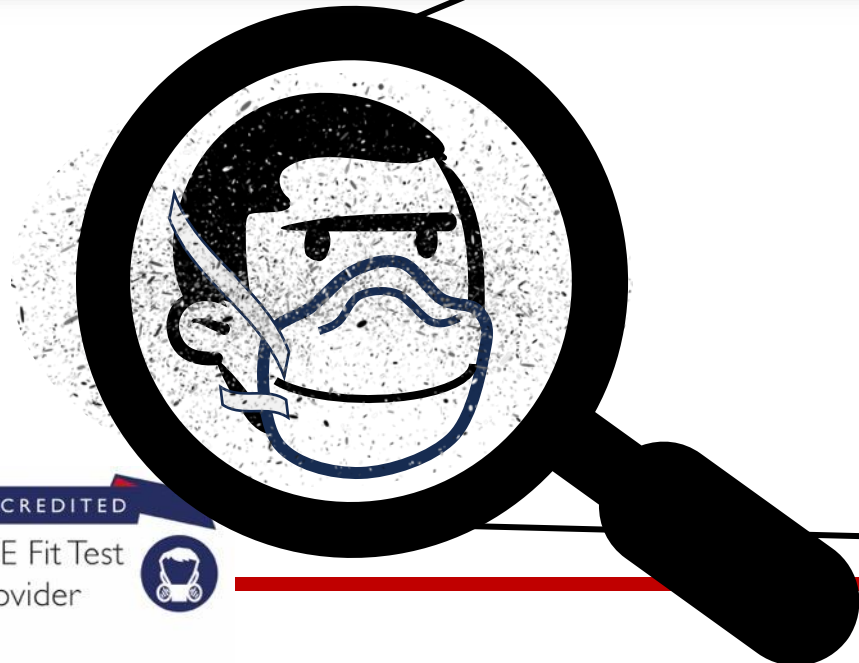
So, in just a couple of active years we see nearly 60 face fitters “qualified” across these countries with a relatively higher uptake in CNP than in the UK



RPE FACE FIT TESTING

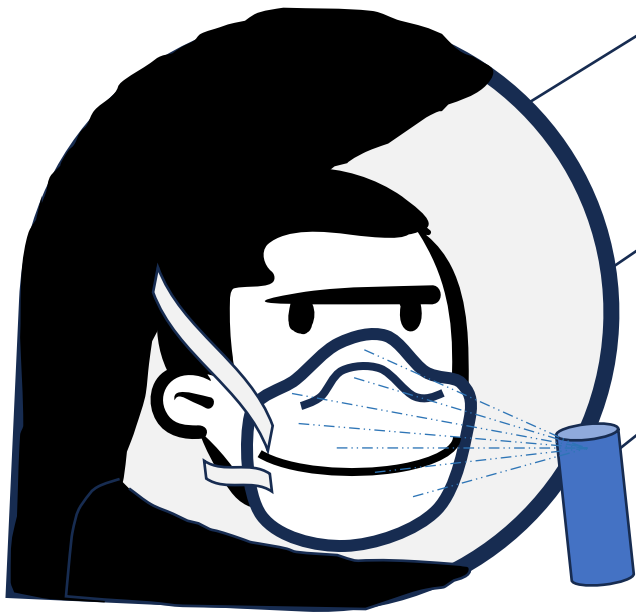


Why must you be clean shaven when wearing a tight-fitting mask?



RPE FACE FIT TESTING

Qualitative Fit Testing



Recognises taste present

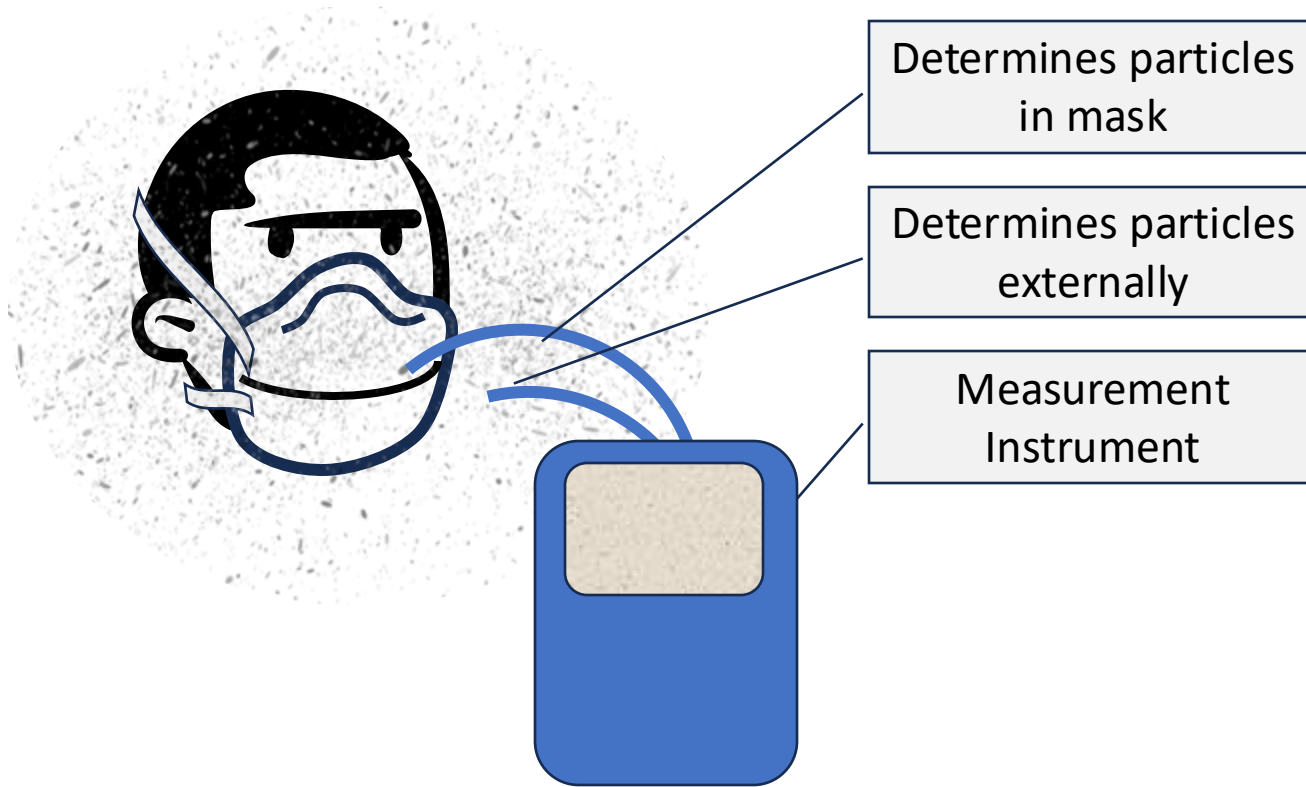
Bitter or Sweet taste

Aerosol Test Agent



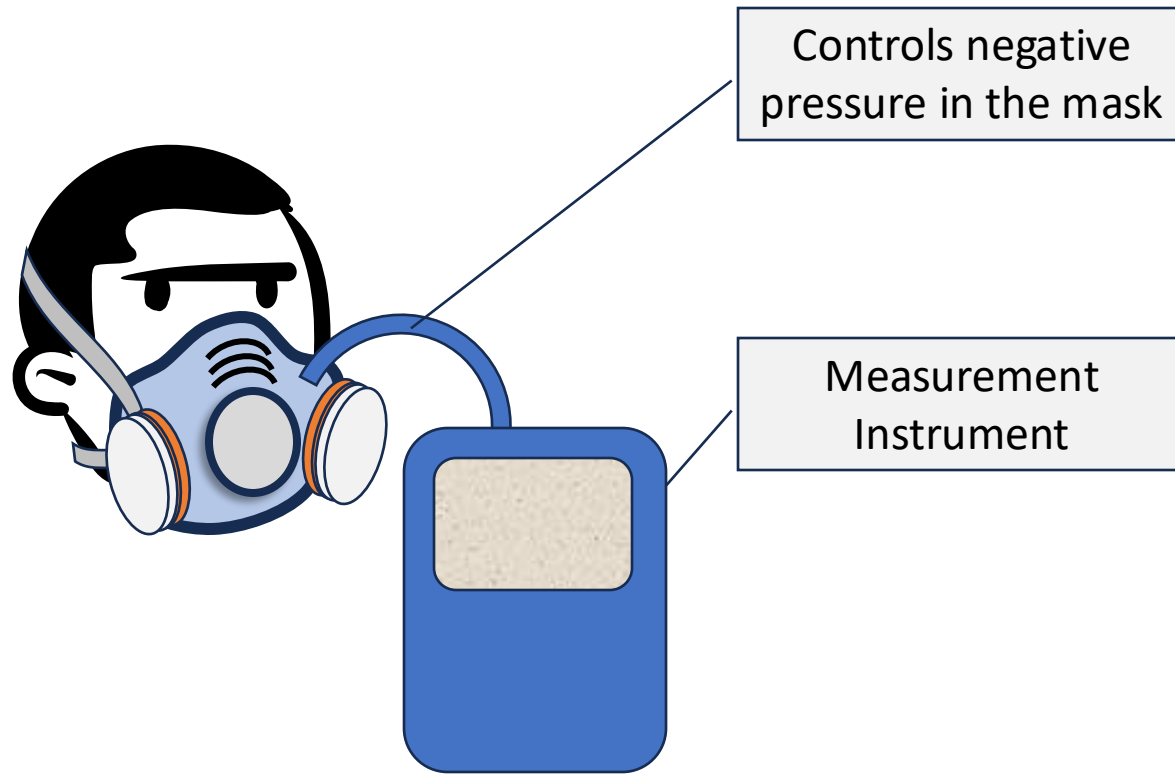
RPE FACE FIT TESTING

Quantitative Ambient Particle Counting



RPE FACE FIT TESTING

Quantitative Controlled Negative Pressure



FIT2FIT & FACE FIT TESTING

RPE Face Fit Testing must be carried out by someone specifically competent in face fit testing.

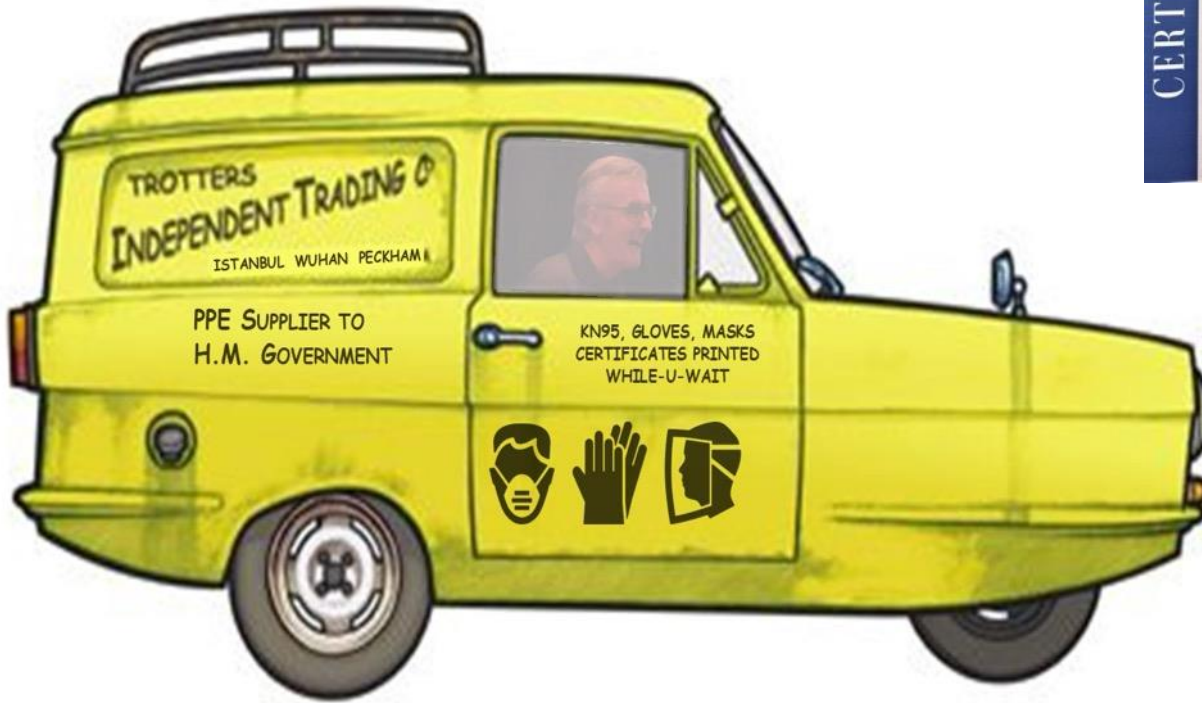
Fit2Fit Accredited Fit Testers can be found online at www.fit2fit.org/find-a-tester

Name	Company	Fit Test Method Accreditation Achieved	Regions Covered	Telephone	Email	Office Location
Paul Humphrey	01Dust2Noise Ltd	Qualitative (Taste), Quantitative (APC), Quantitative (CNP)	South Coast	07745 119087	paul@dust2noise.com	West Sussex
Nathan Wilkinson-Jones	1974 Rapport Ltd	Qualitative (Taste), Quantitative (APC)	Nationwide	07954 042742	nathan@1974rapport.co.uk	Staffordshire
Natalie Whitehead	2020 Training Ltd	Qualitative (Taste)	Nationwide	07895 000998	natalie@2020trainingltd.co.uk	Derby
Matthew Bewley	3B Training	Qualitative (Taste)	Nationwide	0330 912 0650	mathew.bewley@3btraining.com	Wigan
Simon Booth	3B Training	Qualitative (Taste)	Nationwide	0330 912 0650	simon.booth@3btraining.com	Wigan

Fit2Fit advises that a fit test should be repeated every 1-2 years to ensure the selected mask is still appropriate and providing adequate protection for the wearer.



PPE and RPE in the Pandemic



Certificate – Сертификат – 證明書 – Certificat – 증명서 – 証明書



Registered Safety Supplier Scheme and Market Surveillance

Member Testing

Pass/Fail	Totals
Pass	339
Fail	44
Pending	0
Total	383
% Fail	11%

Type	Total	Pass	Fail	Pending	%Fail
Head	7	5	2	0	29%
Eye/Face	25	23	2	0	8%
Hearing	12	8	1	0	11% *
RPE	44	41	3	0	7%
Clothing	22	16	6	0	27%
Hi-Vis	48	48	0	0	0%
Hand/Arm	85	63	22	0	26%
Foot	108	99	7	0	7%
Equipment	2	2	0	0	0%
WAH	15	14	1	0	7%
WTP	20	20	0	0	0%
Totals	388	339	44	0	11%

*2 tests cancelled due to prior test failure



Registered Safety Supplier Scheme Update
281 Members Auditable
271 Audits Conducted (96%) **251 Completed (94%)**
20 Incomplete at year end

Member PPE Tests	Non-Member PPE Tests
TOTAL – 411	TOTAL - 134
24 Pending	7 Pending
332 Pass	18 Pass
55 Fail Test (14%) *	110 Fail Test (86%) *
16 Documentation Fails	330 Documentation
8 D of C	101 D Of C
2 UIS	83 UIS
6 Certificates	100 Certificates
0 Markings	46 Markings

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Hearing	12	8	1	0	11% *
RPE	44	41	3	0	7%
Clothing	22	16	6	0	27%
Hi-Vis	48	48	0	0	0%
Hand/Arm	85	63	22	0	26%
Foot	108	99	7	0	7%
Equipment	2	2	0	0	0%
WAH	15	14	1	0	7%
WTP	20	20	0	0	0%
Totals	388	339	44	0	11%

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Non-Member Testing

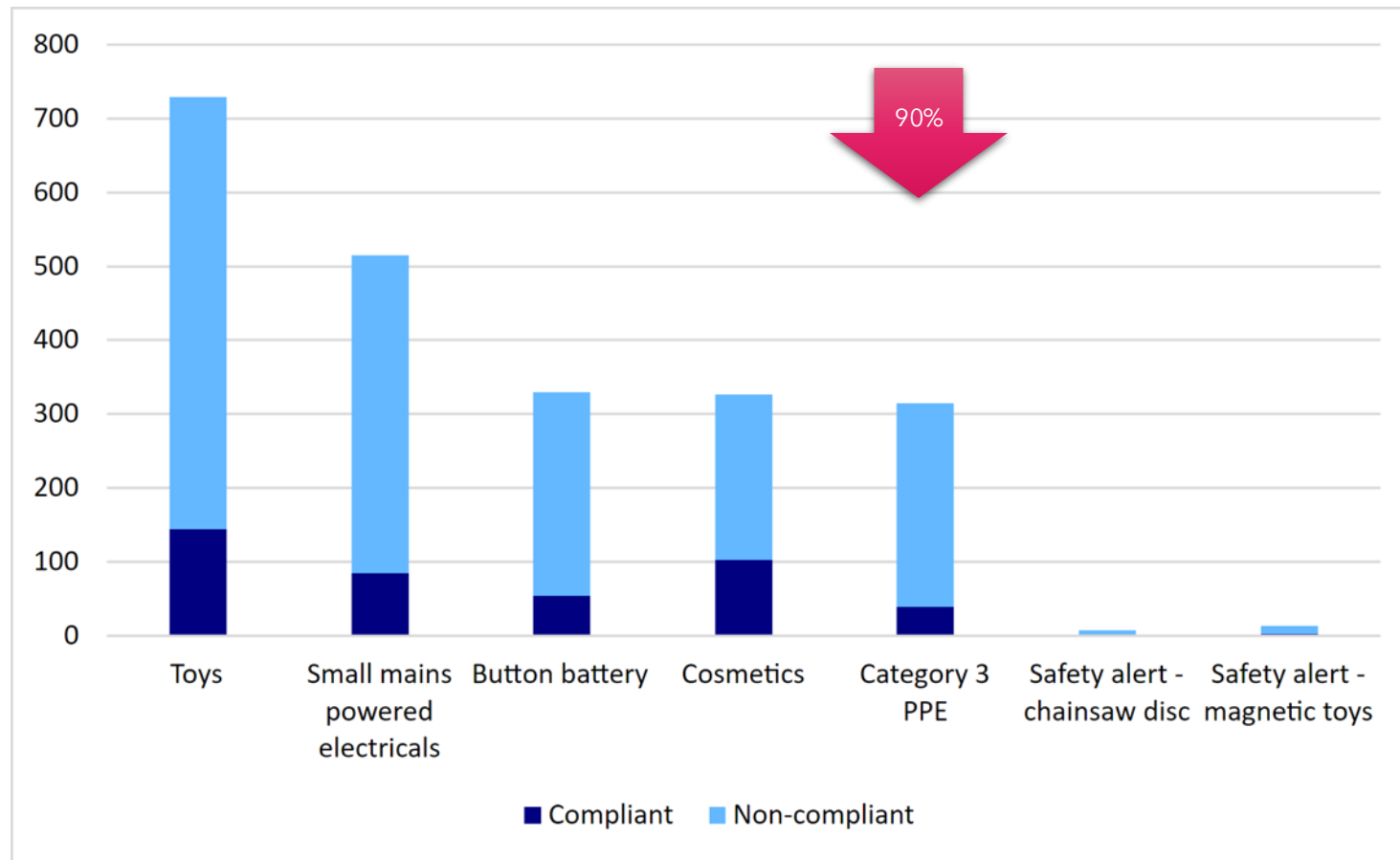
Pass/Fail	Totals
Pass	27
Fail	104
Pending	0
Total	131
% Fail	79% *

Type	Total	Pass	Fail	Pending	%Fail
Head	8	4	4	0	50%
Eye/Face	9	1	8	0	89%
Hearing	0	0	0	0	0
RPE	22	9	13	0	59%
Clothing	14	0	14	0	100%
Hi-Vis	13	2	11	0	85%
Hand/Arm	32	3	29	0	91%
Foot	30	5	25	0	83%
Equipment	0	0	0	0	0
WAH	0	0	0	0	0
Motorcycl	3	3	0	0	0%
Totals	131	27	104	0	79%

Market Surveillance for PPE & Safety Equipment



Office for Product
Safety & Standards





Thank you!



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