



IMPROVING BEHAVIOURAL SAFETY WITH DRIVERS USING MICROLEARNING

Graham HALL Air Products

Winter Seminar 2021 Behavioural Safety

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POSITIVELY INFLUENCING DRIVER BEHAVIOUR



► How do you influence drivers?

- Experience tells us, to influence behaviour, 4 points are key:
 - Short and to the point
 - Relevant
 - Engaging
 - Accessible
- Previous step change improvement
 - Introduction of forward facing cameras, telematics and our coaching programme

Relevant
Individual driver performance Safety and efficiency scores
Accessible
Intuitive mobile app Easy to navigate

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POSITIVELY INFLUENCING DRIVER BEHAVIOUR



► Next step on our journey to zero accidents and incidents

- Feedback via our driver coaching programme identified training as an opportunity for improvement
- Learner Home

- Both content and method of delivery
 - All types reviewed
 - New driver
 - CPC certificate of professional competence
 - Practical training
 - Health and safety refresher training





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DRIVER REFRESHER TRAINING



► Refresher training – Issues with previous approach

- Qualifications that need to be refreshed over a 1 to 5 year cycle
- Most classroom based with some online
- Opportunity to influence behaviour through training is intermittent
- Driver availability challenging due to operational demands
- Inefficiency of driver trainer resources
- Risk of dilution of message when training done by 3rd party trainers
- No set structure to when drivers receive training



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DRIVER REFRESHER TRAINING



► Traditional approach

- Traditional academic classroom teaching methods mostly ineffective with drivers
 - Full day in classroom or at start or end of shift
- Training not always delivered in drivers mother tongue
- Death by PowerPoint impacts retention of training and message
 - Cognitive psychology research show the human brain will struggle to absorb information if delivered in large volume
 - The Ebbinghaus forgetting curve shows that humans start losing the memory of learned knowledge over time, unless the learned knowledge is consciously reviewed time and again even if it's for few minutes





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EIGA MICRO

MICROLEARNING



Air Products new approach

- Switch refresher training to microlearning
- •What is microlearning?
 - It's the breaking down of information into topical, bite-sized chunks
 - By interacting with these highly-targeted learning bursts, lessons become much easier to digest and the likelihood of knowledge retention is increased



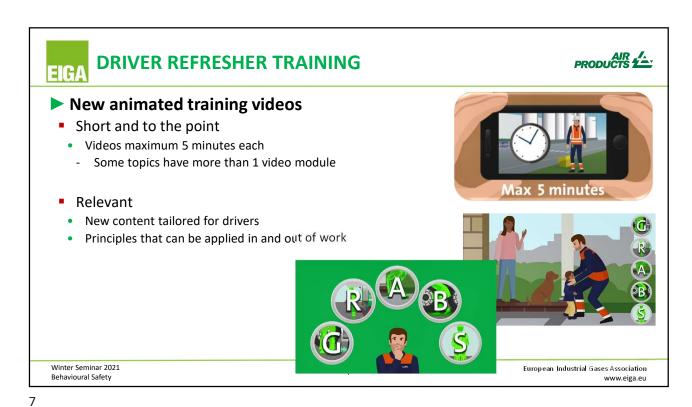


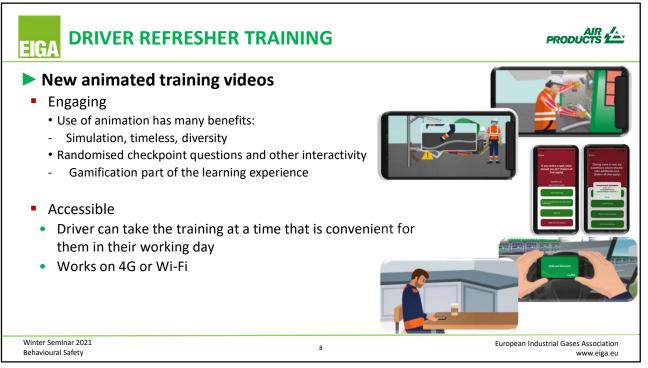


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DRIVER REFRESHER TRAINING



Microlearning = highly-targeted learning bursts

- Using video allows the message to be condensed
- Typical example:
 - Slips trips and falls = 33 PowerPoint slides 1 hour in classroom
 - New format = 3 x 3 minute videos total 9 minutes of animated video



Refocus driver trainers

- Target face to face time on practical topics
- Maximise one to one behavioural training in role
 - Observing daily activities Safety observations
- Increase frequency of driver assessments
- Coaching for those drivers that need it



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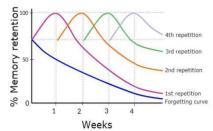
DRIVER REFRESHER TRAINING



Key benefits

- Improve safety
 - Supports our goal of zero accidents and incidents
- Increase frequency of training
- Shorten cycle to 3 years from 5
- Release 1 topic per month over a 3 year cycle
- Increase knowledge retention
- The Ebbinghaus forgetting curve with the inclusion of repetition shows dramatic improvement in knowledge retention





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DRIVER REFRESHER TRAINING



Key benefits

- Microlearning allows for repetition of key messages
- Support operational discipline
 - Regular reminders for drivers of the key steps they should be following



Key principles repeated throughout





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DRIVER REFRESHER TRAINING



Key benefits

- Driver can take training in mother tongue
- Align content and method of delivery across Europe and potentially globally
- Consistency of message to all our drivers
 - Includes our haulier partners
- Structured cycle with a 3 year programme, 1 topic per month
- Automatic updates to training records
 - Compliance reporting
 - Analysis of answers
- Save cost of taking drivers off the road



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VIDEO EXAMPLES – 2 ½ MINUTES



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VIDEO SUMMARY



► Training video examples

- Introduction to Air Products
- Slips trips and falls
- Fatigue
- Ergonomics

Driver feedback

- Very positive
 - 99% of drivers thought the new format would improve their safety
 - 94% of drivers said they would like to see more training in this format
 - 90% said they preferred the new format and they felt it was very effective



Welcome to the

next generation in learning.

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POSITIVELY INFLUENCING DRIVER BEHAVIOUR



Conclusion

- Use of camera technology, coaching and the ability to share information directly with drivers has already positively influenced their behaviour
 - · Safety performance has improved
- Adopting the principles of microlearning has also positively influenced driver behaviour
 - Example of slips trips and falls
 - 3 month period immediately following the release of the video compared to the same period the year before



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POSITIVELY INFLUENCING DRIVER BEHAVIOUR



Remember the 4 key points

Short and to the point

- Videos max 5 minutes
- Condensed material
- Highly-targeted learning bursts
- Repetition = retention



Relevant

- Targeted content at drivers
- Principles that can be applied also at home
- Repetition of key messages



Engaging

- Great feedback from drivers
- Videos cover all product lines
- Diverse team and images
- Interactive questions and activities



Accessible

- Mobile app
- Watch at a time that is convenient in the drivers working day
- Works on 4G or Wi-Fi
- All European languages



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