

Developments in e-learning and their prospects

13 November 2024



LEADERSHIP NAVIGATION

Agenda

1

A brief history of e-learning
in health and safety training

2

Evolution of the NEPSI
e-learning platform

3

What's next for e-learning?





A brief history of e-learning in health and safety training

1924



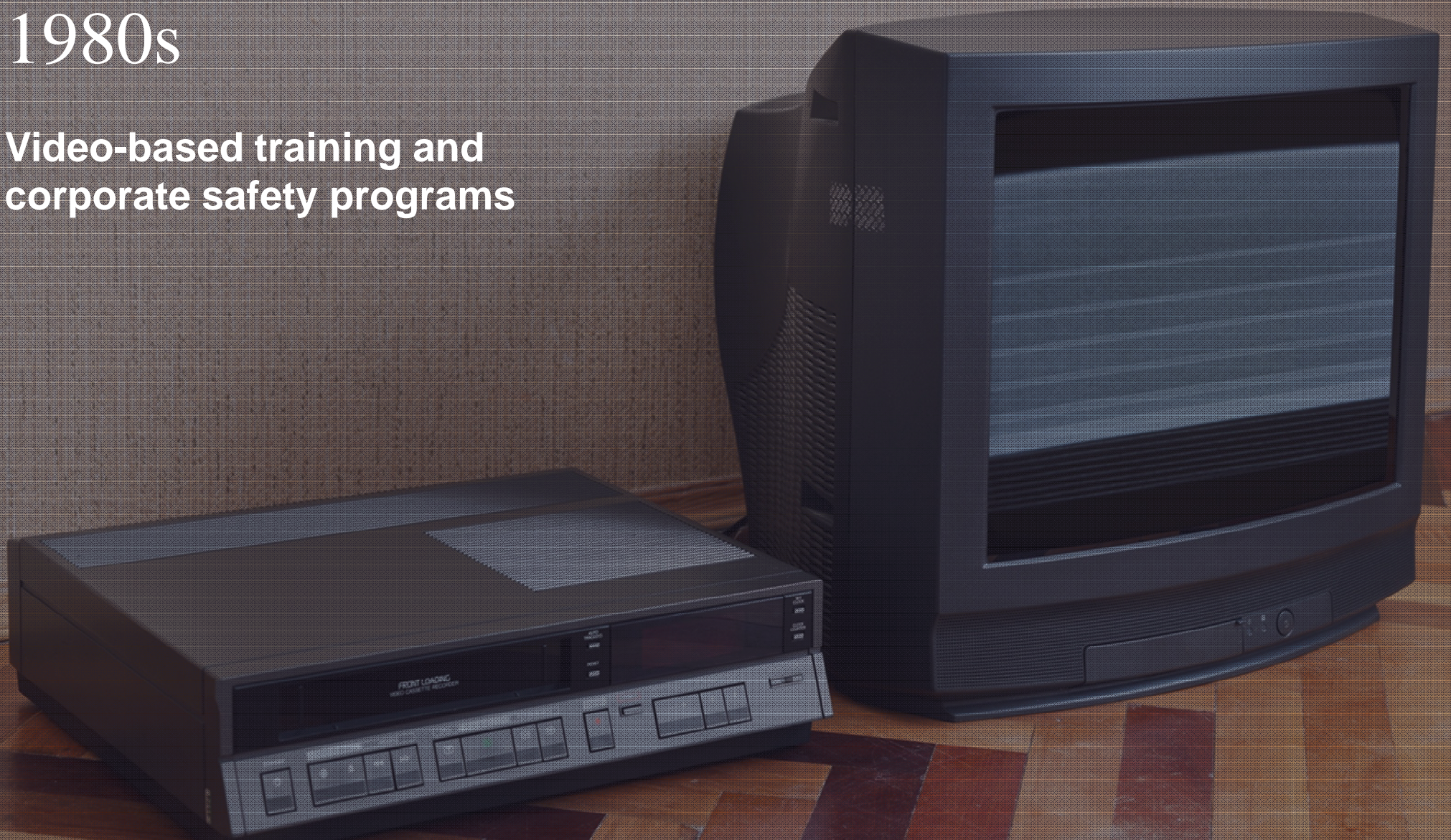
1970s

Early use of computers for occupational safety



1980s

Video-based training and
corporate safety programs



1990s

Advent of multimedia e-learning for safety



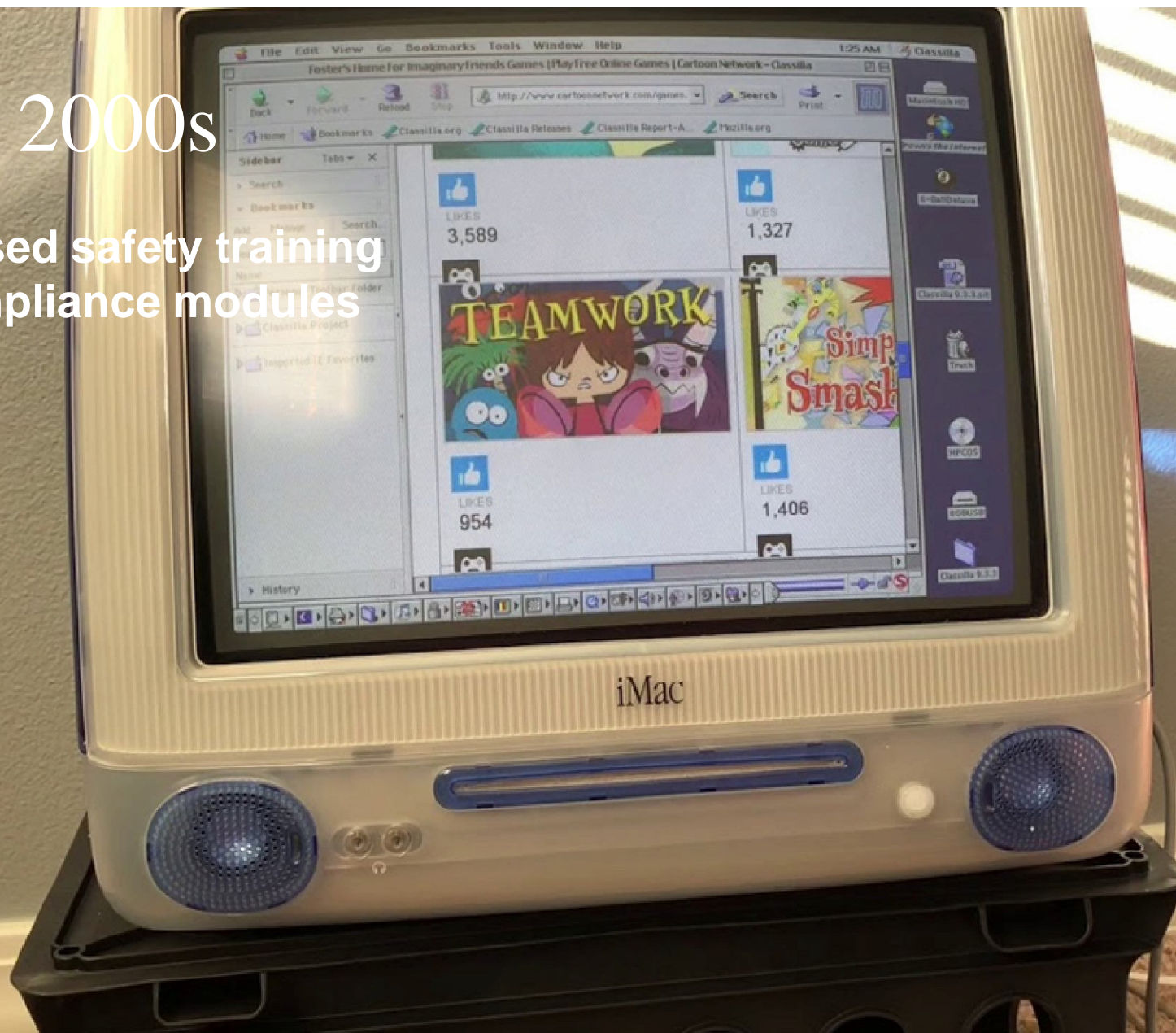
Late 1990s

Learning Management Systems (LMS)
and standardised safety courses



Early 2000s

Web-based safety training
and compliance modules



2008

First Massive Open Online Courses (MOOCs)



MASSIVE

There may be
100,000+
students in a
MOOC.



OPEN

Anyone,
anywhere
can register
for these
courses.



ONLINE

Coursework
is delivered
entirely over
the Internet.



COURSE

MOOCs are
very similar
to most online
college courses.

2010s

Mobile e-learning and on-demand safety training



2015

Growths in
gamification and
Virtual Reality (VR)



2020s

Pandemic accelerates digital health and safety training



2020



Interaktiva inlärningsmoduler

NEPSI launches Good Practice Guide and e-learning platform with introductory module about the possible dangers of respirable crystalline silica (RCS) and how best workers can protect themselves from hazardous dust at work

The module has been designed to teach you about the possible dangers of respirable crystalline silica (RCS) and how best to protect yourself from hazardous dust at work.

The module is not graded and there are no time limits, although each module contains questions. You can stop and start where you left off within the module and your manager will be able to see your progress.

Good luck with your studies!



2020 to today

Growth of artificial intelligence, adaptive learning, improvements in gamification and immersive technologies





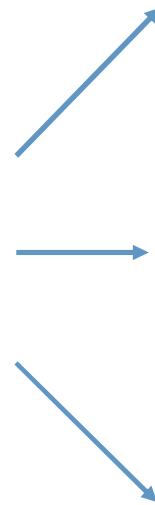
Evolution of the NEPSI e-learning platform

LEADERSHIP NAVIGATION

NEPSI e-learning Gen-1

PROJECT GOAL

“Develop a modular, web-based training, or better: e-learning, concept that is also appealing to young workers who are exposed to RCS and integrate engaging, participation-oriented features, with materials that can be used on and offline.”



Develop **traditional training material** (in the format of PowerPoint training packs, downloadable from the website) and an e-learning program through a web platform.

The training material on RCS and NEPSI good practices should **be focused on new workers' induction** to companies.

Engage young workers through e-learning platform.

E-learning platform and module

A technical platform to deliver e-learning trainings in the new NEPSI web-app



- With specific user tree allowing easy setup and use at different levels (without requiring email addresses from workers), whilst maintaining data privacy
- With capacity for infinite number of training modules on various topics – tailorable to specific sectors

Interactive training module *“Introduction to Crystalline Silica Good Practices”* for new workers / refresher training (mobile and desktop friendly)

- Initial module to launch the platform
- PowerPoint module support tools

Landing page for workers

THE NEPSI GOOD PRACTICE GUIDE | SME TOOLKIT

 Home Register account The European Network on Silica 

My WordPress Blog
E-LEARNING PLATFORM


Welcome to the NEPSI eLearning platform homepage

Here you can access NEPSI's interactive learning modules, which provide you with the tools and knowledge to protect yourself at work.

Each module has been designed to teach you about the dangers of respirable crystalline silica (RCS) and how best to protect yourself from hazardous dust at work.

Modules are not graded, and there are no time limits – although each module will contain quiz questions. You can stop and start from where you left off within a module, and your manager will be able to see your progress.

Happy learning!



Sign in

Login

Password

[Sign in](#)

[Register as an independent worker](#)

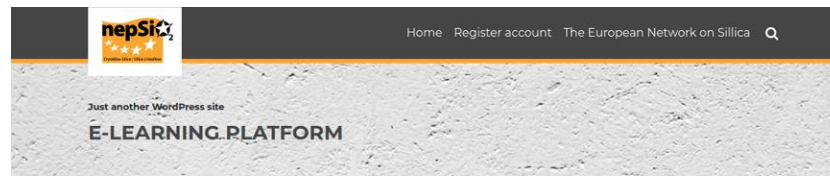
Home [Cookie policy](#) [Privacy policy](#) [Terms & conditions](#) [Contact](#)

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Registration for independent workers

To sign up and pick their own modules of interest



Register account

Proin sit amet nulla malesuada, sagittis arcu ac, lobortis sem. Etiam nec nisi tellus.

Sed sit amet ex bibendum, tincidunt leo eget, elementum dui. In quis libero in nisi pharetra dignissim. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia curae; Morbi volutpat ipsum et tellus suscipit, quis luctus dui tempus. Vivamus metus dui, condimentum ut iaculis non, condimentum nec ligula.



Sign up

Login

Last name

Company

Password

Email

First name

Role

Repeat password

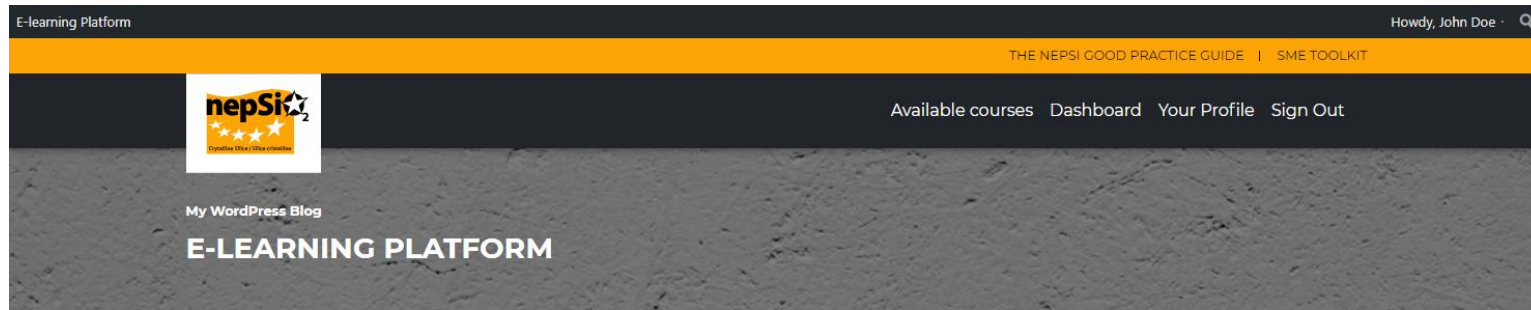
** All fields are required.*

[Register](#)

[Already have an account? Sign in.](#)

LEADERSHIP NAVIGATION

Modules landing page



Available courses

Introduction to Crystalline Silica and Good Practices

By the end of the module, you will be able to recognise the risks present in your workplace and identify the practices in place to limit possible exposure to RCS.

[Start course](#)

[Home](#) [Cookie policy](#) [Privacy policy](#) [Terms & conditions](#) [Contact](#)

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LEADERSHIP NAVIGATION

Module 1 introduction



[Home](#) [Available Courses](#) [Training Packs](#) [Nepsi](#) [Sign Out](#)

Introduction to Crystalline Silica and Good Practices

Welcome to the General Introduction to Crystalline Silica Good Practices eTraining module.

The aims of the self-trainings are to give you:

- A basic understanding of RCS and why it matters
- The risks associated with RCS
- An understanding of how to control RCS in the workplace
- a start on reviewing, reflecting on dust control in your professional context

By the end of the module, you will be able to recognise the risks present in your workplace, and identify the practices in place to limit possible exposure to RCS.

What is dust?

Why are we talking about dust?

LEADERSHIP NAVIGATION

Answer type 2 – Multiple choice several options

The screenshot displays an e-learning platform interface. At the top, there is a navigation bar with the text "E-learning Platform" on the left and "Howdy, John Doe" on the right. Below this, a secondary bar contains "THE NEPSI GOOD PRACTICE GUIDE" and "SME TOOLKIT". The main header area features the "nepSi" logo on the left and navigation links for "Available courses", "Dashboard", "Your Profile", and "Sign Out" on the right. A "My WordPress Blog" link is also visible. The main content area is titled "E-LEARNING PLATFORM" and shows a progress bar under the heading "Your progress". The quiz question is: "Quiz: What size of dust particles form the Respirable Fraction that can penetrate deep into the lungs?". There are four multiple-choice options: "1 mm", "1,000 microns", "10 microns", and "4 microns". Navigation buttons for "Previous page" and "Next page" are located below the options. The footer contains links for "Home", "Cookie policy", "Privacy policy", "Terms & conditions", and "Contact", along with contact information for NEPSI and a copyright notice for 2020.

E-learning Platform

Howdy, John Doe

THE NEPSI GOOD PRACTICE GUIDE | SME TOOLKIT

nepSi

Available courses Dashboard Your Profile Sign Out

My WordPress Blog

E-LEARNING PLATFORM

Your progress

Quiz: What size of dust particles form the Respirable Fraction that can penetrate deep into the lungs?

1 mm 1,000 microns 10 microns 4 microns

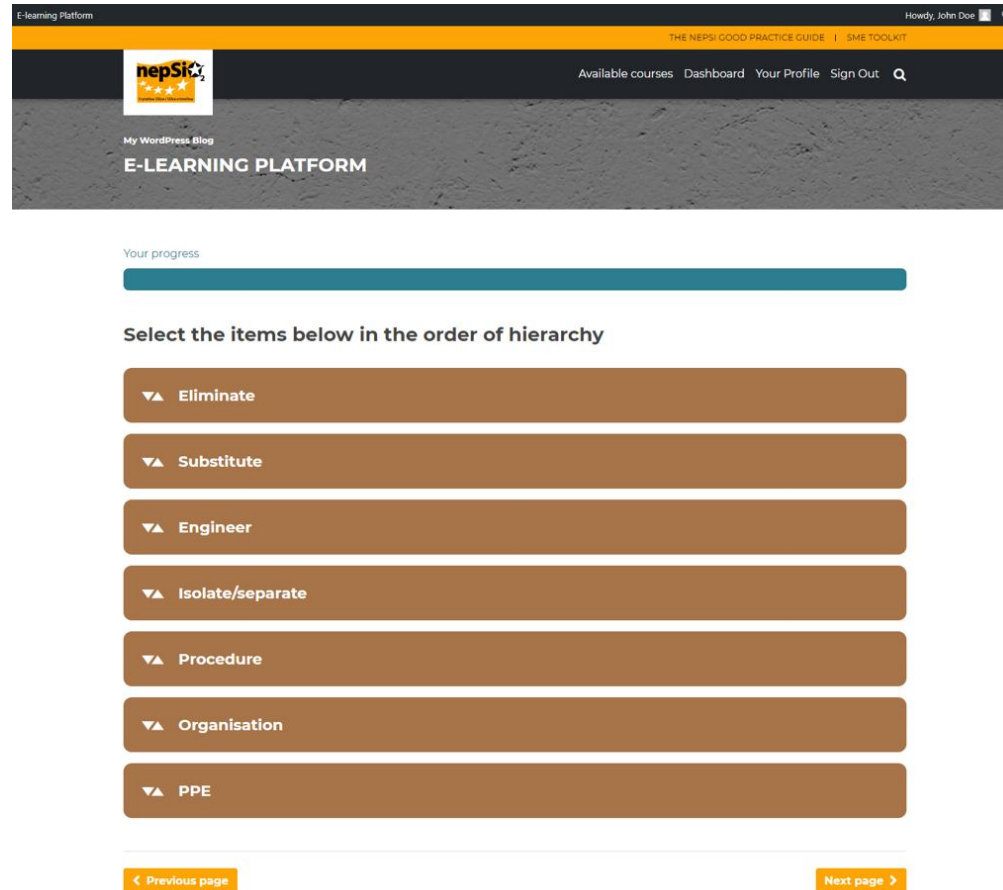
Previous page Next page

Home Cookie policy Privacy policy Terms & conditions Contact

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Answer type 3 – Drag and drop to re-order list



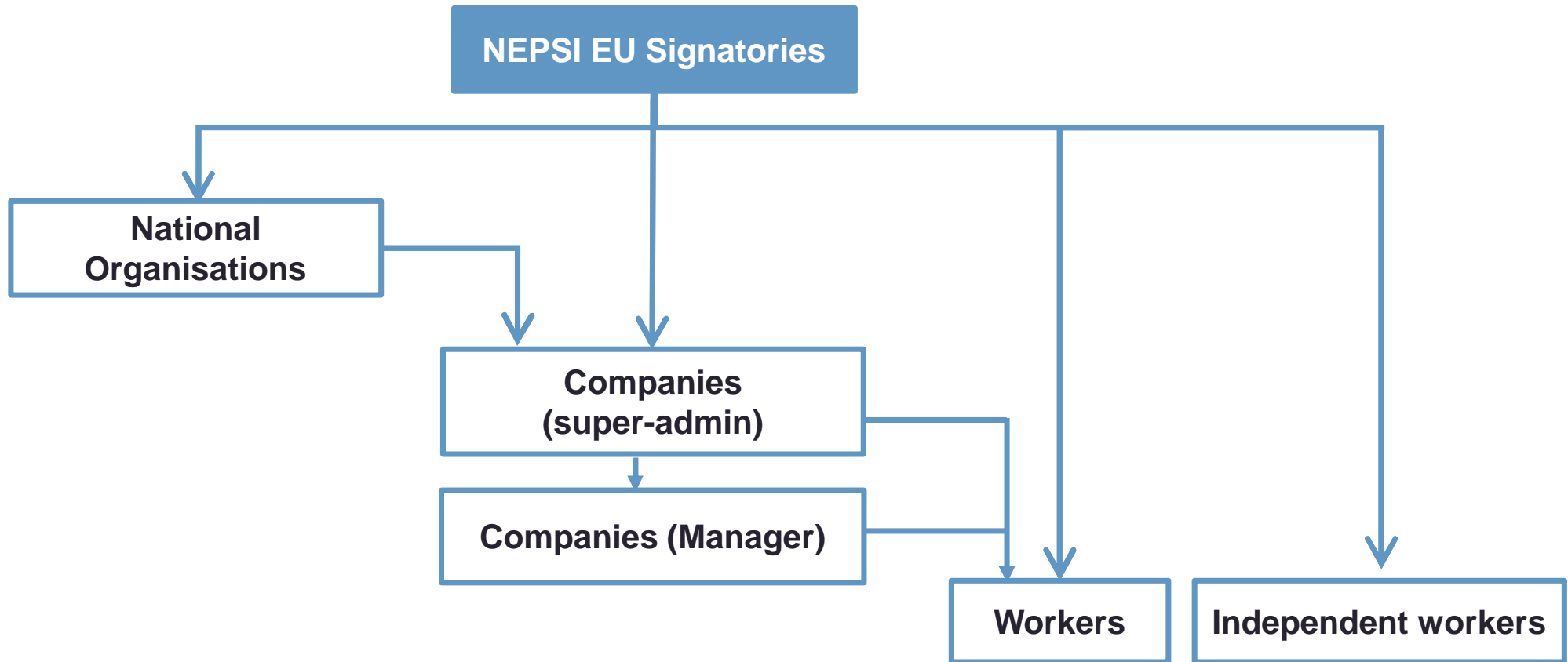
The screenshot shows an e-learning platform interface. At the top, there is a navigation bar with the text "E-learning Platform" on the left, "Howdy, John Doe" on the right, and a search icon. Below this is a secondary navigation bar with "THE NEPSI GOOD PRACTICE GUIDE | SME TOOLKIT" and a search icon. The main content area features the "nepSi" logo and the text "My WordPress Blog" and "E-LEARNING PLATFORM".

Below the main content area, there is a section titled "Your progress" with a teal progress bar. Below this is a section titled "Select the items below in the order of hierarchy" with a list of seven items, each in a brown box with a dropdown arrow:

- ▼ Eliminate
- ▼ Substitute
- ▼ Engineer
- ▼ Isolate/separate
- ▼ Procedure
- ▼ Organisation
- ▼ PPE

At the bottom of the page, there are two buttons: "< Previous page" and "Next page >".

E-Learning – User setup structure



Key learnings



Open access increases training uptake



New modules needed



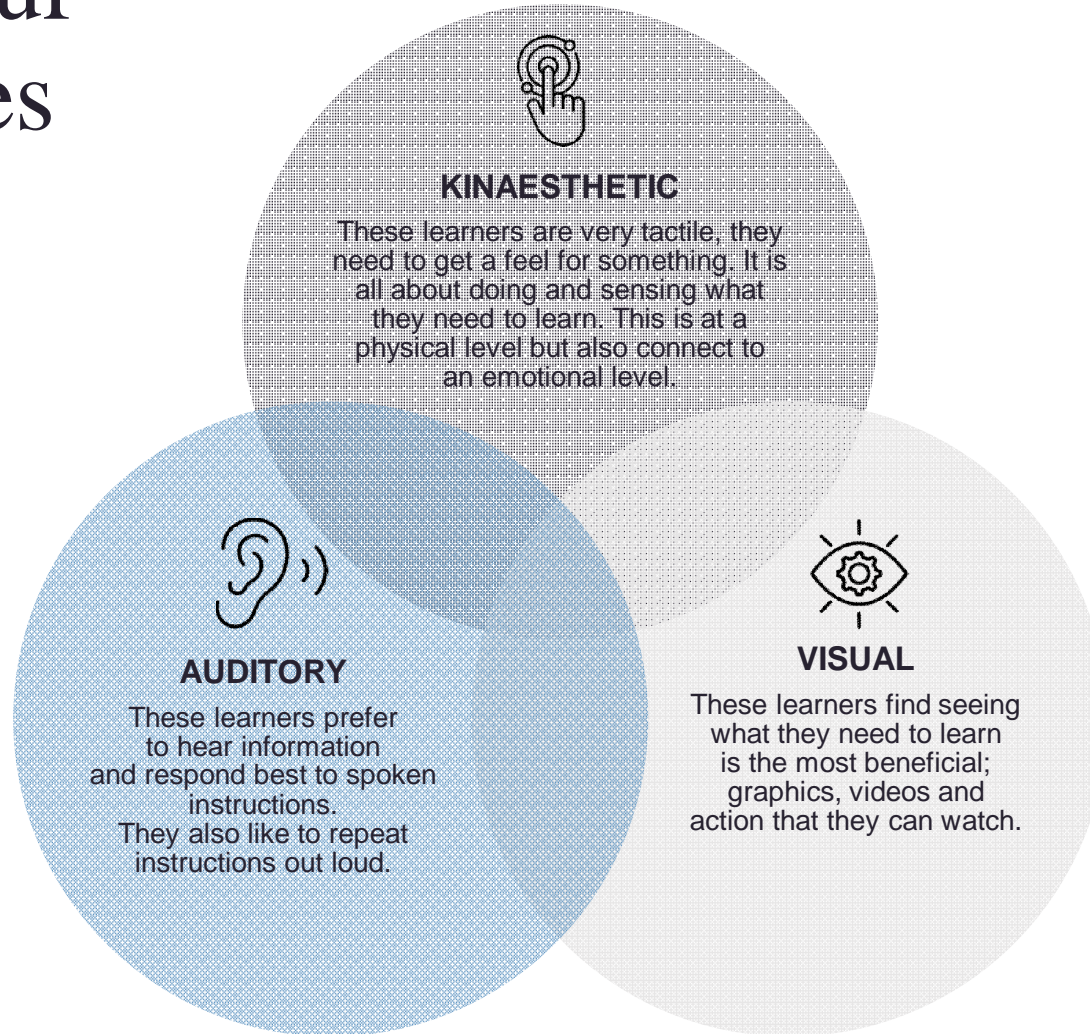
Concerns from both workers and employers need to be taken into account




Technology advancements and growth of gamified learning

We know our learner types

Effective learning for everyone





While it's challenging to provide an exact percentage increase in learning outcomes due to gamification, research and studies have shown that gamification can have a positive impact on engagement, motivation, and retention of information

Microlearning

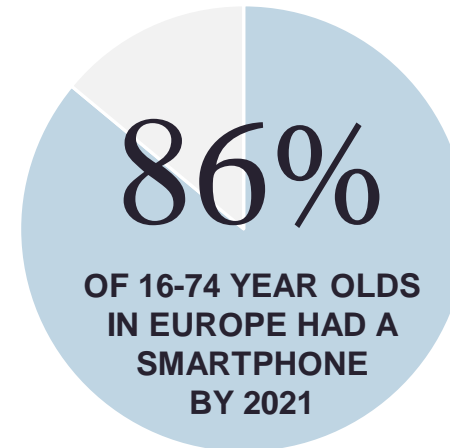
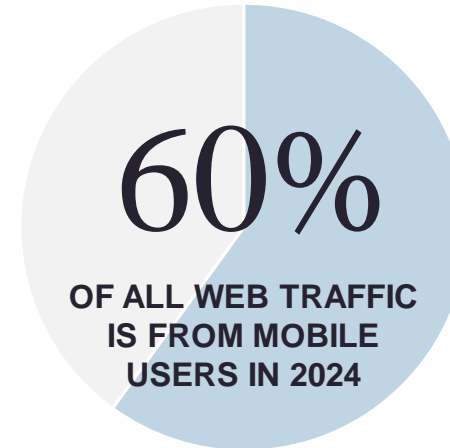
Short, focused learning modules that can be consumed in bite-sized chunks make it easier to fit training into our busy schedules

- The average adult's attention span typically ranges from 10 to 20 minutes before starting to decline.
- 20 minute modules can be completed in breaks, work time, transport home, at home.

NEPSI e-learning Gen-2

Develop custom web platform that:

- Is mobile first and responsive
- Has a simplified user access structure
- Includes built-in interactive functionality that can be used to create gamified learning content in future modules
- Has a clean modern design, in line with NEPSI Good Practice Guide platform and harnesses accessibility best practices
- Leverages bite size modules
- Develop modules 2-4 and implement to platform, utilizing new functionality



NEPSI e-learning Gen-2 platform landing

The screenshot shows a web browser window with the URL `nepsi.leidardev.com`. The page features a dark navigation bar with the NEPSI logo (Crystalline Silica / Silice cristalline) and menu items: HOME, MODULES, TRAINING PACKS, and ABOUT US. The main content area has a white background with a large heading: "Welcome to the NEPSI e-learning hub!". To the right of the heading is a photograph of five workers in orange and green safety gear. Below the heading, there are two columns of text. The left column describes the platform as the home of interactive learning modules and downloadable training packs, and notes that all training modules are accessible and designed to teach about the dangers of respirable crystalline silica (RCS). The right column, set against an orange background, is titled "Our modules" and includes a "START LEARNING" button. At the bottom, there are three distinct sections: "Training packs" (describing packs for workers using materials with crystalline silica), "About us" (explaining the social dialogue agreement), and "Good Practice Guide" (with a "VISIT WEBSITE" button).


NEPSI E-Learning

nepsi.leidardev.com

HOME MODULES TRAINING PACKS ABOUT US

nepSi
Crystalline Silica / Silice cristalline

Welcome to the NEPSI e-learning hub!



The home of NEPSI's interactive learning modules and downloadable Good Practice Training Packs.

All training modules are accessible, and have been designed to teach you about the possible dangers of respirable crystalline silica (RCS) and provide you with the tools and knowledge to best to protect yourself from hazardous dust at work.

Our modules

Access NEPSI's interactive learning modules, which provide you with the tools and knowledge to protect yourself at work.

[START LEARNING](#)

Training packs

The NEPSI Good Practice Training Packs are for all workers using materials that contain crystalline silica.

About us

NEPSI is based around a social dialogue agreement between industry sectors and trade unions to protect workers' health from exposure to respirable crystalline silica.

Good Practice Guide

[VISIT WEBSITE](#)

NEPSI e-learning Gen-2 platform modules

Modules – NEPSI E-Learning x +

nepsi.leidardev.com/modules/

nepSi
Crystalline Silica / Silice cristalline

HOME MODULES TRAINING PACKS ABOUT US

Modules

Our training modules have been designed for you to learn about the possible dangers of respirable crystalline silica (RCS) and how best to protect yourself from hazardous dust at work.

Modules are not graded, and there are no time limits, although each module will contain quiz questions. Each module should take around 20 minutes to complete. Once you start a module, you must complete it to obtain your certificate. If you leave the process part way through, you will need to start again.

– Control of Silica Dust in Specific Activities

This course is about good practices to minimise exposure to respirable crystalline silica dust in the workplace. It is based on real-life scenarios.

BEGIN MODULE

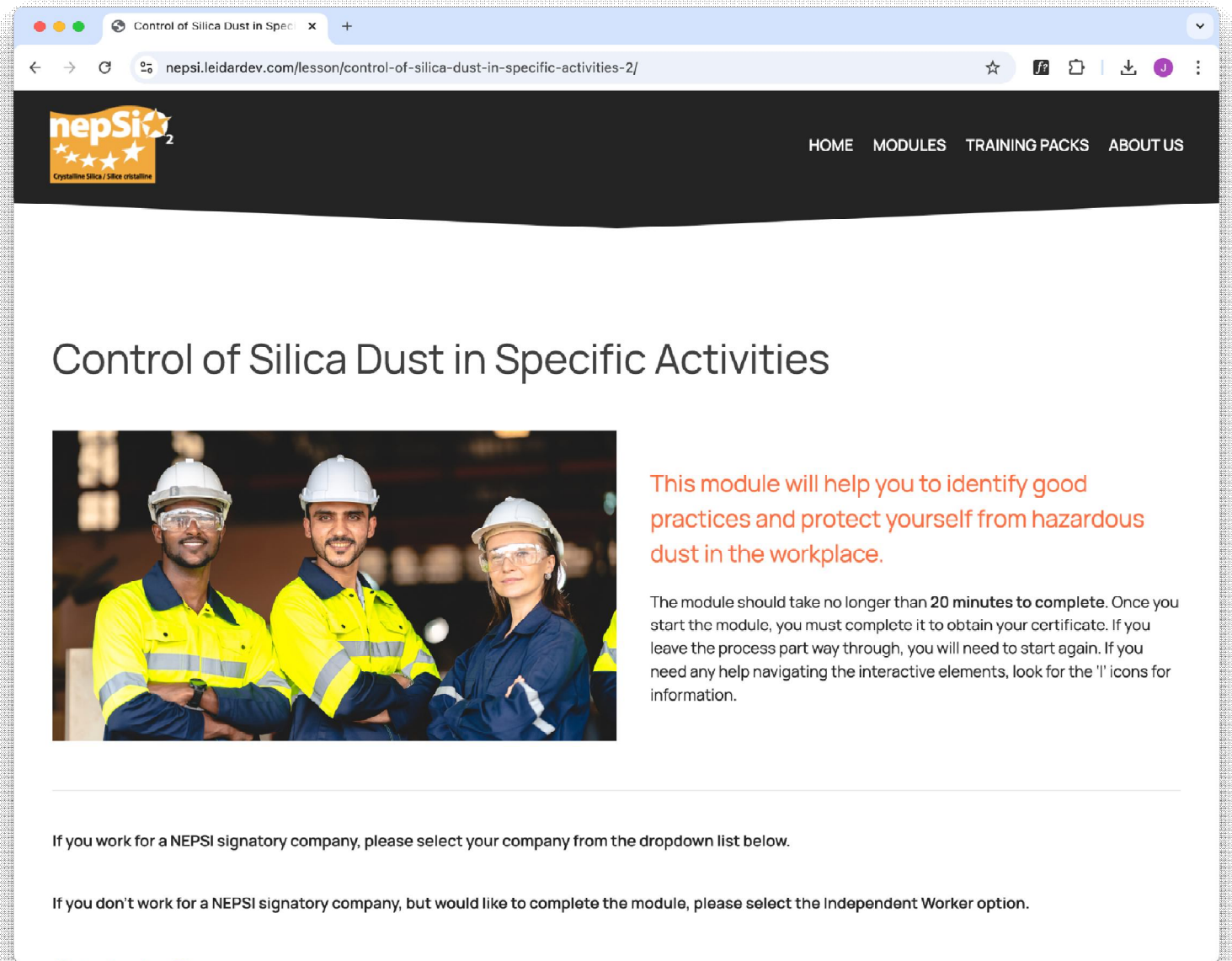
+ DIY and Mobile Work Without Dust

Good practice Guide

VISIT WEBSITE

SME Toolkit

NEPSI e-learning Gen-2 platform module introduction



The screenshot shows a web browser window with the URL `nepsi.leidardev.com/lesson/control-of-silica-dust-in-specific-activities-2/`. The page features the NEPSI logo (Crystalline Silica / Silice cristalline) and a navigation menu with links for HOME, MODULES, TRAINING PACKS, and ABOUT US. The main heading is "Control of Silica Dust in Specific Activities". Below the heading is a photograph of three workers in high-visibility yellow and blue uniforms and white hard hats. To the right of the photo, a text box states: "This module will help you to identify good practices and protect yourself from hazardous dust in the workplace." Below this, a paragraph explains: "The module should take no longer than 20 minutes to complete. Once you start the module, you must complete it to obtain your certificate. If you leave the process part way through, you will need to start again. If you need any help navigating the interactive elements, look for the 'i' icons for information." At the bottom, there are two instructions: "If you work for a NEPSI signatory company, please select your company from the dropdown list below." and "If you don't work for a NEPSI signatory company, but would like to complete the module, please select the Independent Worker option."

Control of Silica Dust in Specific Activities

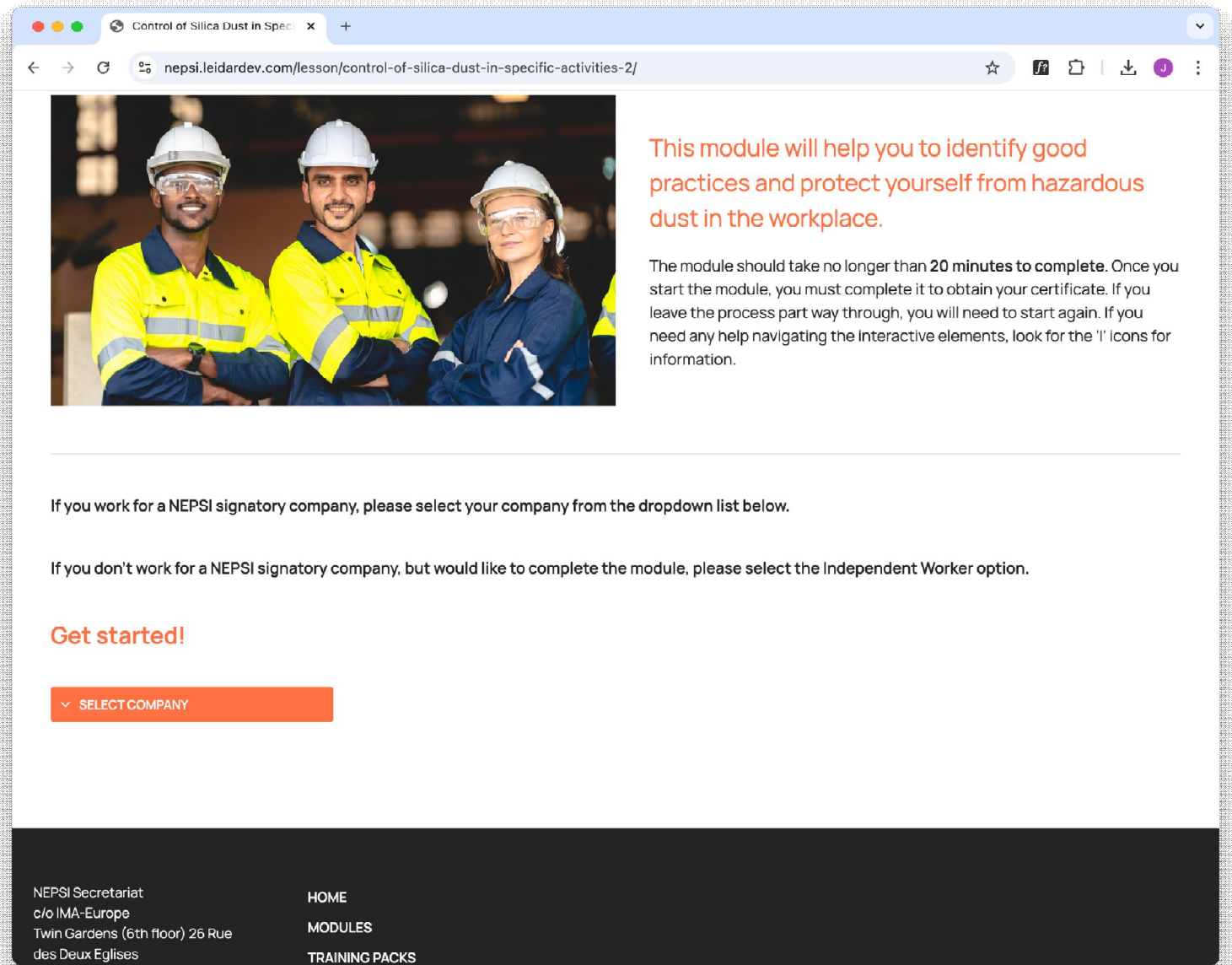
This module will help you to identify good practices and protect yourself from hazardous dust in the workplace.

The module should take no longer than 20 minutes to complete. Once you start the module, you must complete it to obtain your certificate. If you leave the process part way through, you will need to start again. If you need any help navigating the interactive elements, look for the 'i' icons for information.

If you work for a NEPSI signatory company, please select your company from the dropdown list below.


If you don't work for a NEPSI signatory company, but would like to complete the module, please select the Independent Worker option.

NEPSI e-learning Gen-2 platform getting started



Control of Silica Dust in Specific Activities-2

nepsi.leidardev.com/lesson/control-of-silica-dust-in-specific-activities-2/



This module will help you to identify good practices and protect yourself from hazardous dust in the workplace.

The module should take no longer than **20 minutes to complete**. Once you start the module, you must complete it to obtain your certificate. If you leave the process part way through, you will need to start again. If you need any help navigating the interactive elements, look for the 'i' icons for information.

If you work for a NEPSI signatory company, please select your company from the dropdown list below.

If you don't work for a NEPSI signatory company, but would like to complete the module, please select the Independent Worker option.

Get started!

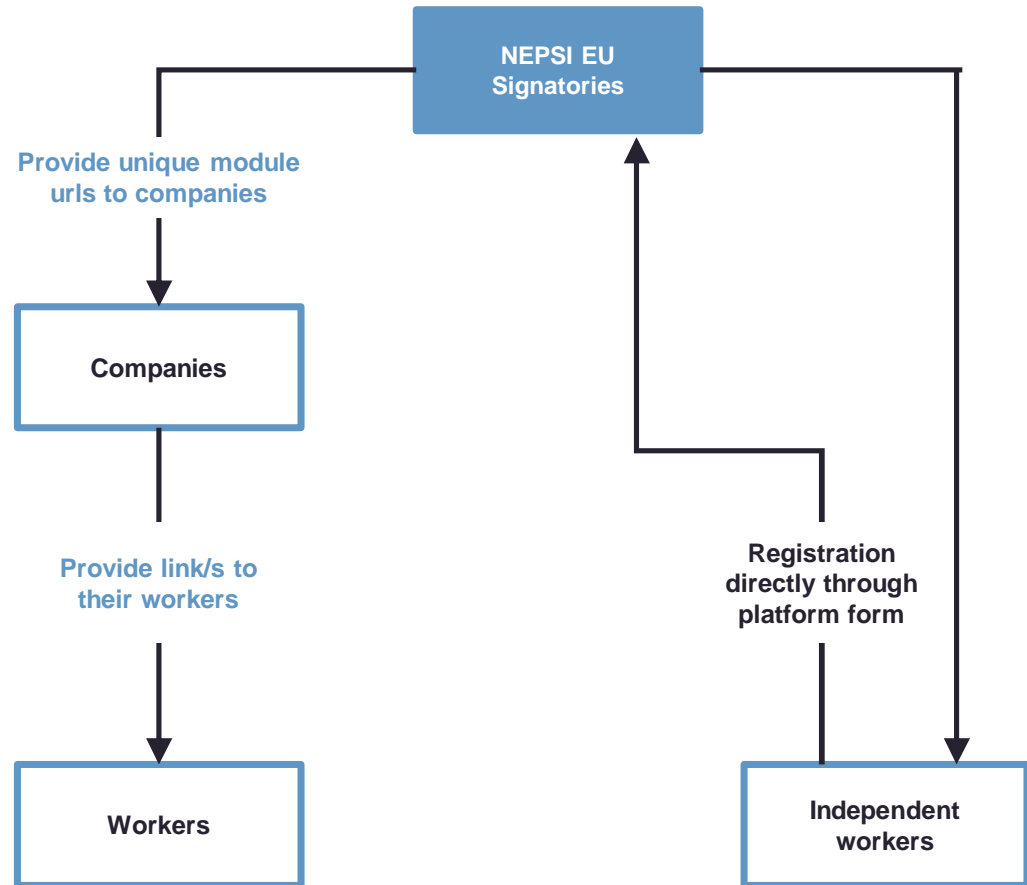
SELECT COMPANY

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Twin Gardens (6th floor) 26 Rue
des Deux Eglises

HOME
MODULES
TRAINING PACKS

Simplified user structure

- No company worker registration required
- Easy worker company selection, from drop down and enters name and email at end of process to download or email certificate
- Company-specific links direct to modules
- Open access for independent workers



Gamified content – flip cards

The screenshot shows a web browser window with the following content:

- Browser Tab:** Chapter 1 – Recap: RCS and its potential health effects
- Address Bar:** nepsi.leidardev.com/lesson/control-of-silica-dust-in-specific-activities-2/chapter-1-recap-rcs-and-its-potential-health-effe...
- Page Header:** ACME Co. (left) and 14% (right)
- Section Title:** Control of Silica Dust in Specific Activities
- Chapter Title:** Chapter 1 – Recap: RCS and its potential health effects
- Text:** Respirable Crystalline Silica (RCS) is fine dust that may be generated when materials containing crystalline silica are processed.
- Text:** Crystalline silica, in the form of the mineral quartz, is found in many different materials. In this chapter you'll find a list of 15 industries in which workplace exposure to RCS is acknowledged and approached as a health risk.
- Instruction:** Click on your industry to read more – make sure to read the information about your domain!
- Industry Cards (8 visible):**
 - AGGREGATES (with orange plus icon)
 - CALCIUM SILICATE MASONRY UNITS (with orange plus icon)
 - CEMENT INDUSTRY (with orange plus icon)
 - CERAMICS INDUSTRY (with orange plus icon)
 - Interior room with lamp (with orange plus icon)
 - Large pile of orange spheres (with orange plus icon)
 - Mechanical part (with orange plus icon)
 - Molten metal (with orange plus icon)

Gamified content – interactive workstations with pop up hotspots

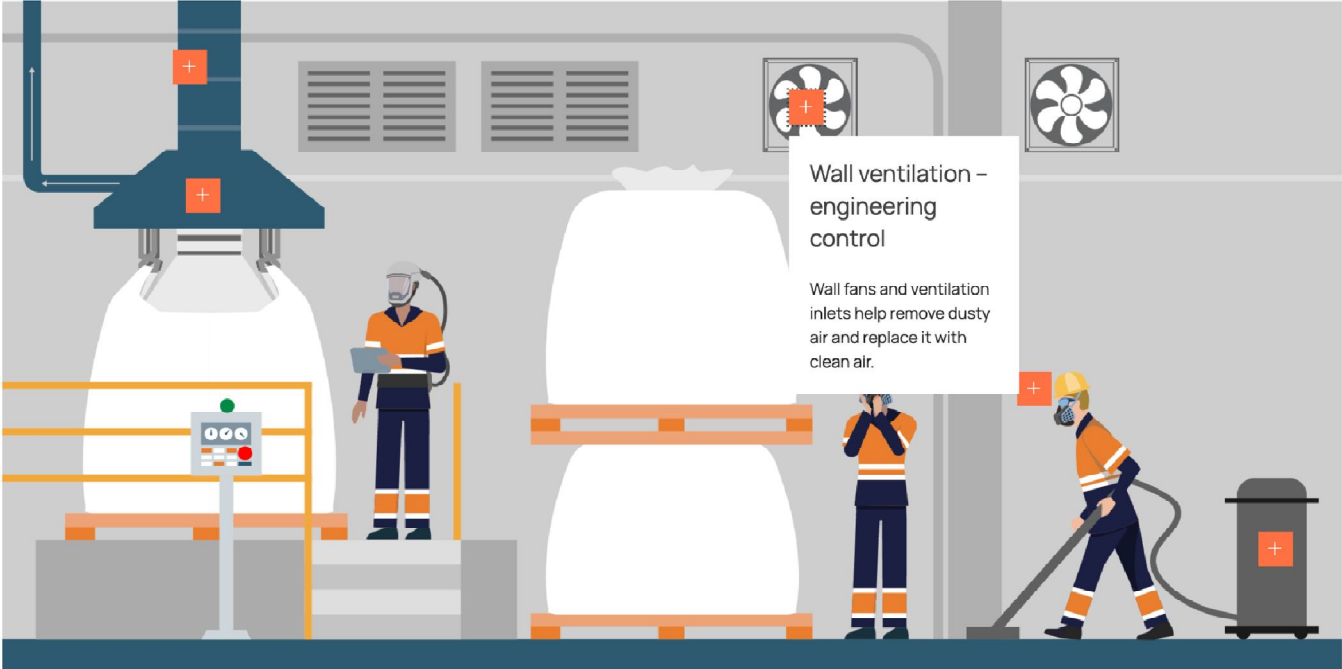
Chapter 4 – RCS dust control

Chapter 4 – RCS dust control for specific activities

Workstation: Bagging

Click on the hotspots for pop up information about that part of the image.

There are five hotspots to find, once you've read them all, move on!



Wall ventilation – engineering control

Wall fans and ventilation inlets help remove dusty air and replace it with clean air.

The illustration shows a bagging workstation with several hotspots (orange squares with a white plus sign) located on a large bagging machine, a worker, a wall fan, a worker, and a vacuum cleaner. A pop-up information box is visible over the wall fan, providing details about wall ventilation as an engineering control.

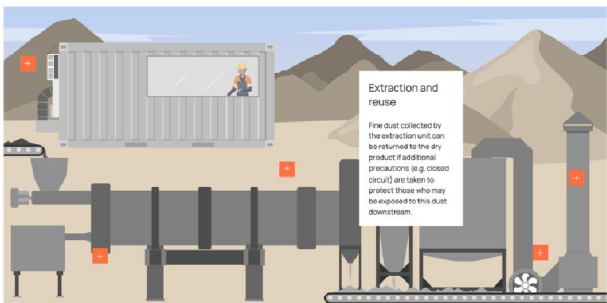
Chapter 4 - RCS dust control

neps.leidardev.com/lesson/control-of-silica-dust-in-specific-activities-2/chapter-4-rs-dust-control-for-specific-activities...

Workstation: Drying

Click on the hotspots for pop up information about that part of the image.

There are six hotspots to find, once you've read them all, move on!



Extraction and reuse

Fine dust collected by the extraction unit can be returned to the dry product if additional precautions (e.g. closed circuit) are taken to protect those who may be exposed to this dust downstream.

If you click or tap on the indicated hotspots on the image, more information will appear in a pop-up box.

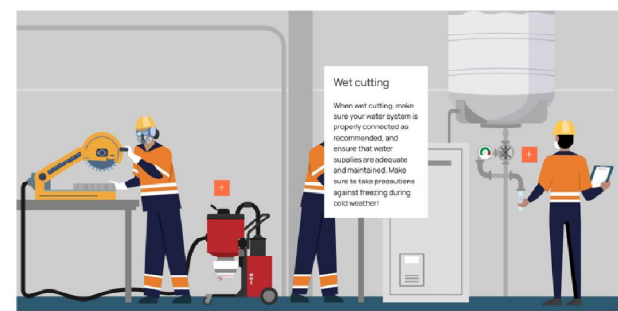
Chapter 4 - RCS dust control

neps.leidardev.com/lesson/control-of-silica-dust-in-specific-activities-2/chapter-4-rs-dust-control-for-specific-activities...

Workstation: Cutting materials

Click on the hotspots for pop up information about that part of the image.

There are three hotspots to find, once you've read them all, move on!



Wet cutting

When wet cutting, make sure your water system is properly connected as recommended, and ensure that water supplies are adequate and maintained. Make sure to take precautions against freezing during cold weather!

If you click or tap on the indicated hotspots on the image, more information will appear in a pop-up box.


Chapter 4 - RCS dust control

neps.leidardev.com/lesson/control-of-silica-dust-in-specific-activities-2/chapter-4-rs-dust-control-for-specific-activities...

Workstation: Maintenance

Click on the hotspots for pop up information about that part of the image.

There are four hotspots to find, once you've read them all, move on!



Follow guidelines

Ensure equipment used in the task is maintained as advised by the supplier or installer in sufficient working order and in good repair. If the machine or equipment has a manual, maintain in accordance with the instructions.

If you click or tap on the indicated hotspots on the image, more information will appear in a pop-up box.


Chapter 4 - RCS dust control

neps.leidardev.com/lesson/control-of-silica-dust-in-specific-activities-2/chapter-4-rs-dust-control-for-specific-activities...

Workstation: Emptying bags

Click on the hotspots for pop up information about that part of the image.

There are four hotspots to find, once you've read them all, move on!



For small bags

Ensure you tip the contents gently - never dump them! Bags should be emptied with the open end facing away. The use of automatic or semi-automatic bag emptying stations is recommended.

If you click or tap on the indicated hotspots on the image, more information will appear in a pop-up box.


Chapter 4 - RCS dust control

neps.leidardev.com/lesson/control-of-silica-dust-in-specific-activities-2/chapter-4-rs-dust-control-for-specific-activities...

Workstation: Mixing

Click on the hotspots for pop up information about that part of the image.

There are three hotspots to find, once you've read them all, move on!



Local exhaust points

The mixer charging point should be enclosed and provided with a local exhaust ventilation or local exhaust ventilation can be supplied at points inside or near the mixer casing, in order to ensure an inflow of air through the mixer.

If you click or tap on the indicated hotspots on the image, more information will appear in a pop-up box.


Chapter 4 - RCS dust control

neps.leidardev.com/lesson/control-of-silica-dust-in-specific-activities-2/chapter-4-rs-dust-control-for-specific-activities...

Workstation: Maintenance

Click on the hotspots for pop up information about that part of the image.

There are four hotspots to find, once you've read them all, move on!

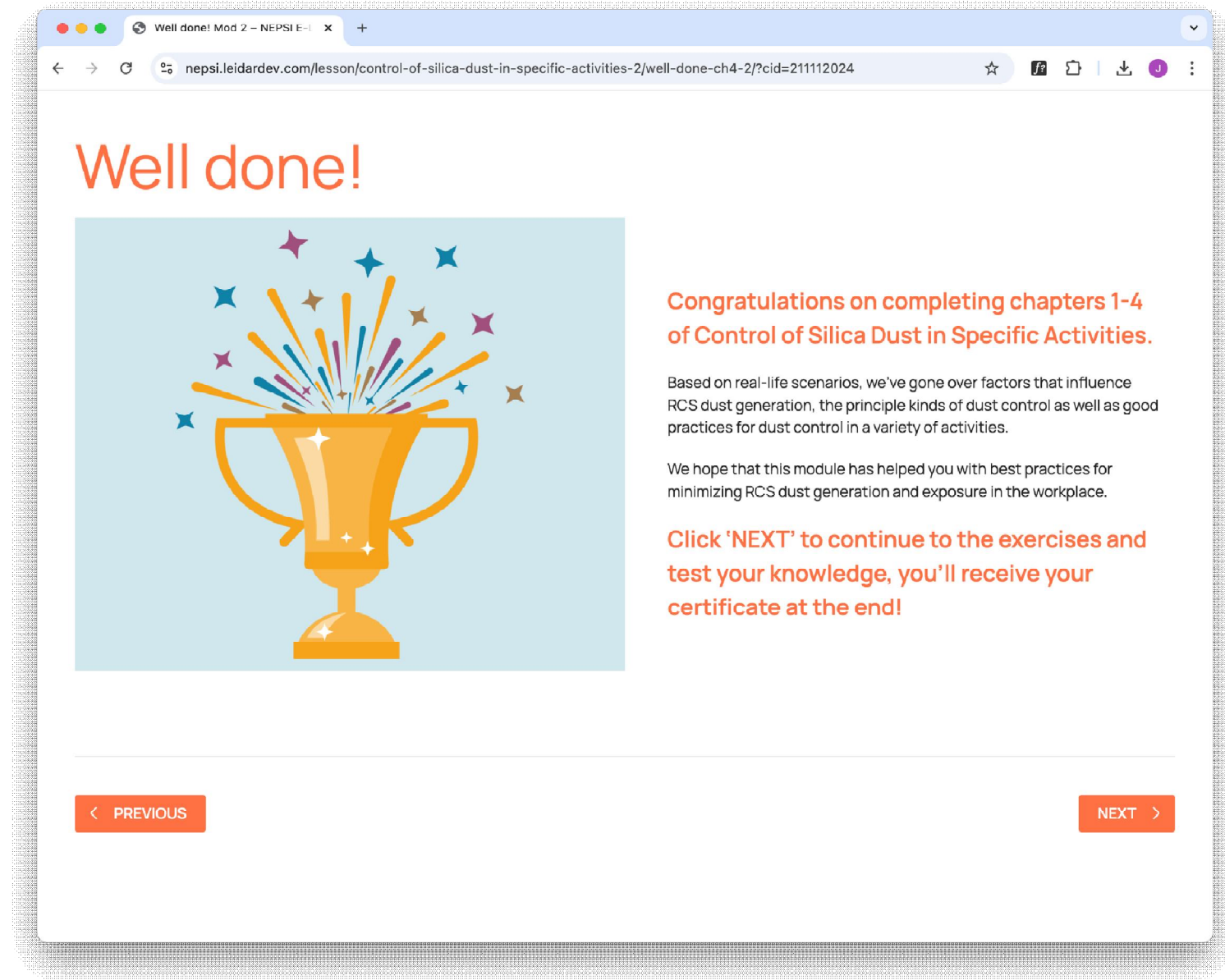


Follow guidelines

Ensure equipment used in the task is maintained as advised by the supplier or installer in sufficient working order and in good repair. If the machine or equipment has a manual, maintain in accordance with the instructions.

If you click or tap on the indicated hotspots on the image, more information will appear in a pop-up box.

Celebrating achievement



The screenshot shows a web browser window with the following elements:

- Browser Tab:** Well done! Mod 2 - NEPSI E-I x
- Address Bar:** nepsi.leidardev.com/lesson/control-of-silica-dust-in-specific-activities-2/well-done-ch4-2/?cid=211112024
- Header:** Well done!
- Image:** A large illustration of a golden trophy with colorful stars and confetti exploding from the top, set against a light blue background.
- Text:**
 - Congratulations on completing chapters 1-4 of Control of Silica Dust in Specific Activities.**
 - Based on real-life scenarios, we've gone over factors that influence RCS dust generation, the principle kinds of dust control as well as good practices for dust control in a variety of activities.
 - We hope that this module has helped you with best practices for minimizing RCS dust generation and exposure in the workplace.
 - Click 'NEXT' to continue to the exercises and test your knowledge, you'll receive your certificate at the end!**
- Navigation:** Two orange buttons at the bottom: "< PREVIOUS" on the left and "NEXT >" on the right.

Fun exercises
to test
knowledge
- match pairs

Chapter 5 – Exercises

Pair the materials with the description.
Find three pairs before you move on!

It's important to know these contents of materials being processed

Crystalline silica and moisture content

Exposure time to the material being processed

This can greatly impact the long-term health outcome of RCS exposure related illness

The three fractions of inhalable, thoracic, and respirable relate to this

Fineness of the material being processed, and how new fine particles may be generated during processing

Match pairs by selecting the phrases that are related to each other.

< PREVIOUS

NEXT >

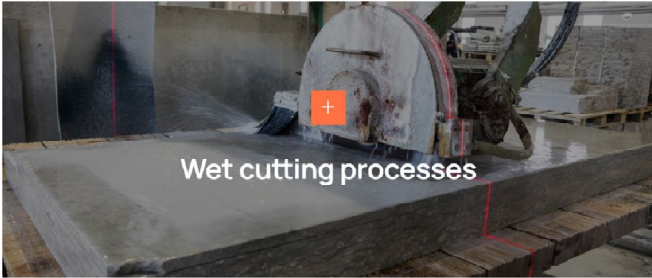
Fun exercises
- combined
interactivity
with flip cards
and answer
identification

Chapter 5 – Exercises 2/5 – N x +

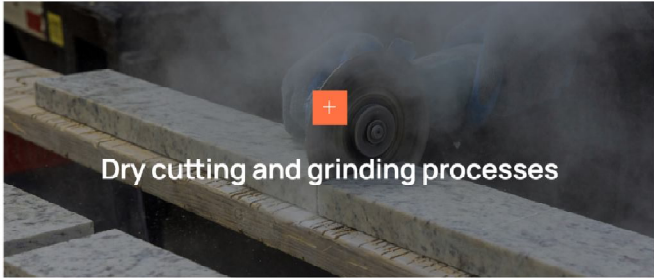
nepsi.leidardev.com/lesson/control-of-silica-dust-in-specific-activities-2/chapter-5-exercises-2-5/?cid=211112024

Chapter 5 – Exercises

Click to take a look at both of the following common work activities.



Wet cutting processes



Dry cutting and grinding processes

Based on the descriptions, which of these activities is likely to generate the most dust?

Wet cutting processes Dry cutting and grinding processes

ⓘ Only answer is correct!

Correct!

Fun exercises - complete the sentences

Chapter 5 – Exercises 3/5 – N x +

nepsi.leidardev.com/lesson/control-of-silica-dust-in-specific-activities-2/chapter-5-exercises-3-5/?cid=211112024

Select the correct dust control to complete the sentences.
Complete them all before you move on!

The most effective control measure is...

PPE Elimination Engineering Controls Substitution

Select the correct word to complete the sentence

Correct!

Water suppression and extraction are forms of...

PPE Elimination Engineering Controls Substitution

Select the correct word to complete the sentence

Correct!

The lowest level form of control is...

PPE Elimination Engineering Controls Substitution

Fun exercises - image spot identification

Chapter 5 – Exercises 4/5 – N x +


nepsi.leidardev.com/lesson/control-of-silica-dust-in-specific-activities-2/chapter-5-exercises-4-5/?cid=211112024

Carry out a pre-start inspection of this work station.

What dust controls do you think are correct?

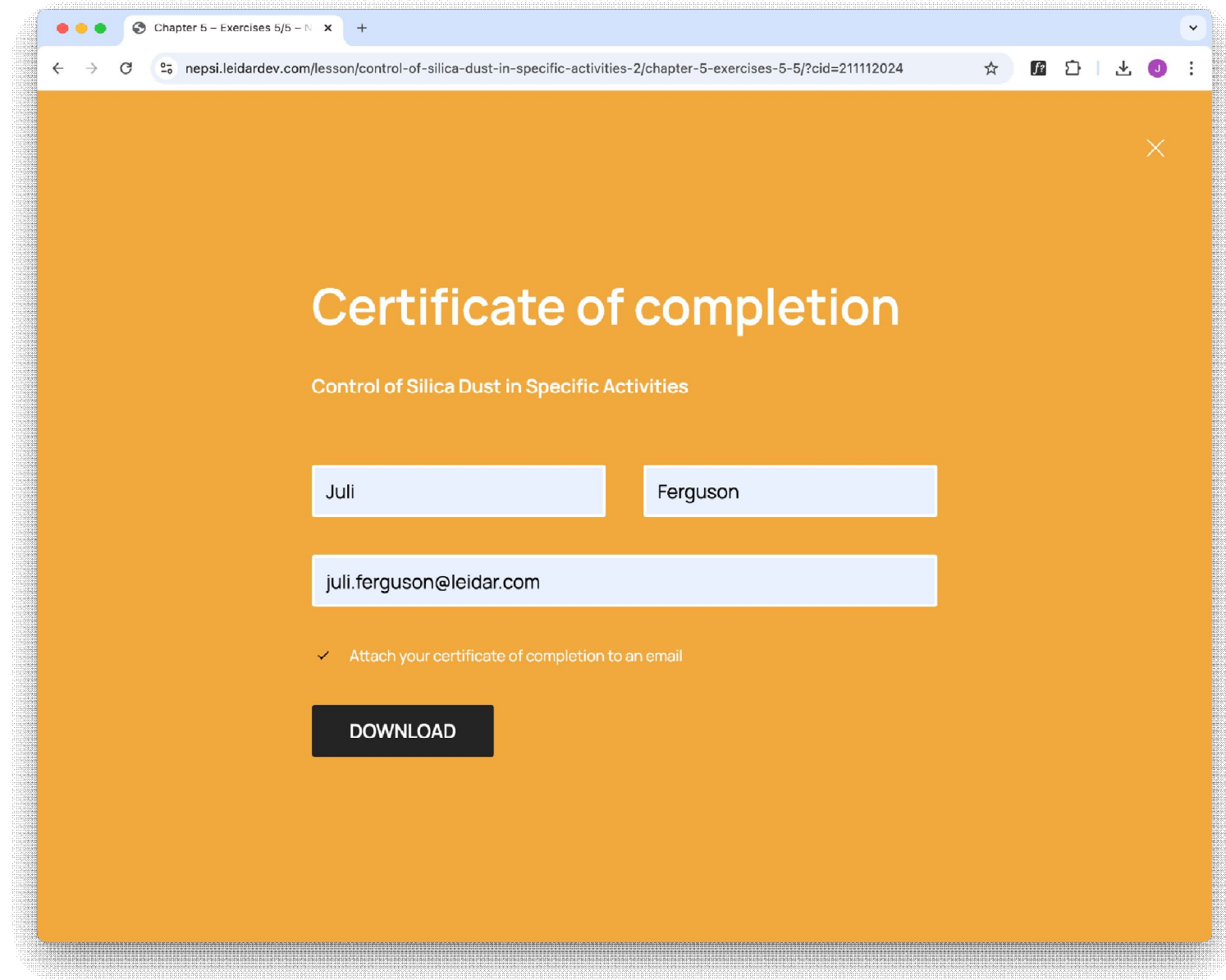
Select all the markers that you think are showing correct dust control techniques, there are four to find!

WORKSTATION - MIXING



The illustration shows a worker in a blue and orange uniform and a yellow hard hat operating a large industrial mixing machine. The machine has a hopper at the top and a mixing drum. A worker in a blue and orange uniform and a yellow hard hat is standing next to the machine, holding a bag. A vacuum cleaner is connected to the machine. There are four red square markers with a white plus sign (+) indicating dust control techniques: one on the hopper, one on the worker's hard hat, one on the worker's mask, and one on the vacuum cleaner.

Enter your name for your certificate, and an email address to send it to



The screenshot shows a web browser window with the URL `nepsi.leidardev.com/lesson/control-of-silica-dust-in-specific-activities-2/chapter-5-exercises-5-5/?cid=211112024`. The page has an orange background and contains the following elements:

- Section Header:** "Certificate of completion" in white text.
- Subtitle:** "Control of Silica Dust in Specific Activities" in white text.
- Form Fields:** Three light blue input fields. The first two contain the text "Juli" and "Ferguson". The third, larger field contains the email address "juli.ferguson@leidar.com".
- Checkmark:** A small checkmark icon followed by the text "Attach your certificate of completion to an email".
- Button:** A dark grey button with the text "DOWNLOAD" in white capital letters.



What's next for e-learning?

LEADERSHIP NAVIGATION

Smarter AI

- Adaptive learning
- Advanced analytics
- Real-time assistance
- Content creation
- Language translation and accessibility



Increased augmented reality

- Hands-on learning, without physical constraints
- Collaboration
- Interactive experiences
- Onsite access to good practices



Fully immersive virtual reality

- Enhanced simulation accuracy in immersive environments for practical learning and safe experimentation
- Data analytics for personalised training experiences
- Remote and globalised safety training
- Better accessibility and affordability of VR hardware
- Integration with Augmented Reality for on-the-job assistance



Conclusion

E-learning in the world of health and safety has transformed immensely already.

The future of e-learning will be driven by advancements in AI, AR and VR technology. AI-tailored learning will increase awareness and preparedness. The evolution will improve compliance, cost-effectiveness, scalability and most importantly, safer work practices.



LEADERSHIP NAVIGATION

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