EfVET European Forum of Technical and Vocational Education and Training

SAFETY ACADEMIA

Safe People, Safe Planet

Connecting Occupational Safety, Sustainability and Responsible Citizenship in VET.

Davit Mazmishvili · Ilona Chukhua
Safety Academia Vocational College
EfVET Annual Conference 2026 · Brussels · Friday 23 October

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Welcome

A shared brainstorm: every experience in the room counts



- **Sit at a table:** 9 tables of up to 6
- **Choose a Voice of the Team:** speaks for the group and gets the Voice of the Team certificate
- **Find your table** for your sector (next slide), then scan its QR code to open it on the workshop hub
- **Share** photos in the gallery and your example on the hub
- **At the end, everyone votes** for the table that presented best, and the winning table receives a gift. Every table gets a thank-you.
- **Your certificate:** download it on your phone after the session, open until midnight Brussels time

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Find your table

Sit at the table for your sector, then scan its QR code (next slide). Table full? Pick the nearest related one.

1 Construction and building services
safe work, energy and material waste

2 Agriculture, food and land-based
machinery, chemicals and natural resources

3 Energy and technical trades
live systems and clean power

4 Automotive and mechanical
workshop hazards, fluids and reuse

5 Welding and metalwork
fumes, sparks and offcuts

6 Hospitality and kitchens
heat, hygiene and food waste

7 Tourism and events
guest safety and responsible travel

8 Health, medical care and pharmacy
patients, staff and environment

9 Open table
IT, logistics, non-medical labs, personal services, woodwork or any other sector

Sit with people you don't know yet.

Maximum two people from the same organisation at one table. If your sector's table is full or already has two colleagues, choose the nearest related table and bring your sector's view there.

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Scan your table's QR code

Find your table number and scan only your table's code

SAFETY ACADEMIA

Table 1

Table 2

Table 3

Table 4

Table 5

Table 6

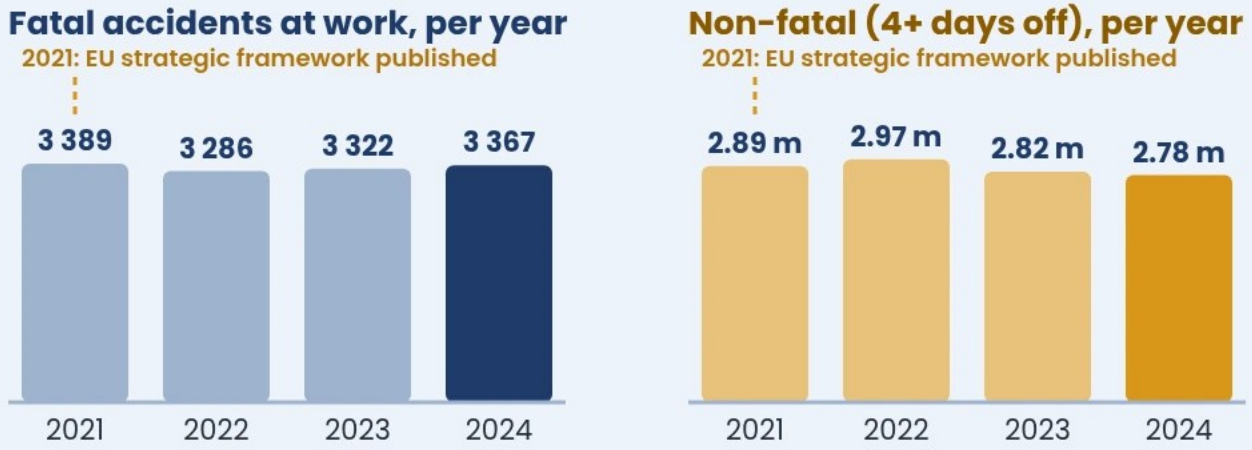
Table 7

Table 8

Table 9

Why we are here: the numbers

Work-related accidents and illnesses in the EU



Since 2021, fatal accidents have barely moved (3 389 → 3 367); non-fatal accidents fell 3.8%. Eurostat · data 2021-2024

179 000
work-related deaths in one year (EU estimate)
EU-OSHA · published 2023 · data 2019

3.3%+ of GDP
yearly cost, ca. EUR 460 billion
EU framework · published 2021 · data 2019

10.3%
of EU workers reported a work-related health problem in one year Eurostat · data 2020

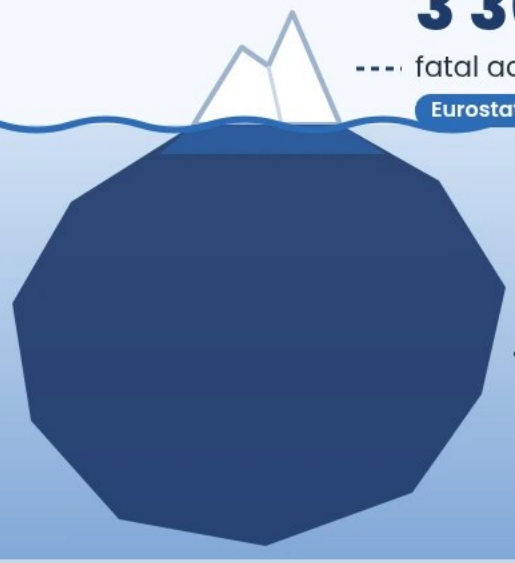
The EU has committed to Vision Zero for work-related deaths. EU framework · published 2021
Rules alone have not got us there. our view

Sources: Eurostat, accidents at work (hsw_n2_02 fatal, hsw_n2_01 non-fatal; data 2021-2024) and EU-LFS ad hoc module (data 2020); EU-OSHA, OSH in Europe: state and trends (published 2023, data 2019); European Commission, EU strategic framework on health and safety at work 2021-2027, COM(2021) 323 (published 2021, cost data 2019).

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What we count vs what we lose

Work-related deaths in the EU: recorded accidents and estimated deaths



3 367

fatal accidents at work, recorded in the EU in one year

Eurostat · data 2024

about 180 000

work-related deaths a year in the EU (estimate), mostly from diseases

EU-OSHA · published 2023 · data 2019

about 50×

more work-related deaths are estimated than are recorded as fatal accidents (179 000 vs 3 367; different years and methods) our calculation

3 500 vs about 100 000

occupational cancers recognised in 2023

Eurostat · data 2023

vs estimated occupational cancer deaths a year

EU framework · published 2021

What we count is the tip: most work-related deaths come from diseases, not accidents. our view

Sources: Eurostat, accidents at work (hsw_n2_02; data 2024) and recognised occupational cancers (hsw_occ_cnr, news release 10 Dec 2025; data 2023); EU-OSHA, OSH in Europe: state and trends (published 2023, ICOH estimate for 2019: 179 000); European Commission, EU strategic framework on health and safety at work 2021-2027, COM(2021) 323 (published 2021).

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The world picture

Work-related deaths worldwide: the ILO global estimate



about 3 million (2.93 m)

work-related deaths in one year, worldwide (estimate)

ILO · published 2023 · data 2019

about 330 000

from work accidents (11%) ILO · published 2023 · data 2019

Of every 10 work-related deaths, about 9 are from diseases ILO · data 2019

work-related diseases: about 2.6 million (89%)

Is it getting better?

The latest estimates "do not show a decline in work-related diseases".

EU-OSHA · published 2023

Read the trend with care

The methods changed between estimates, so older and newer totals are not directly comparable. A rising total is not, on its own, proof that things got worse.

our view

Worldwide as in the EU: diseases, not accidents, cause most work-related deaths. our view

Sources: ILO news release, 26 Nov 2023, and ILO report A call for safer and healthier working environments (published 2023, data 2019), ilo.org/resource/news/nearly-3-million-people-die-work-related-accidents-and-diseases; ILOSTAT (28 Apr 2025: 89% / 11%); EU-OSHA, OSH in Europe: state and trends (published 2023).

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Why we are here: the numbers, sustainability

Greenhouse gas emissions, resources and skills in the EU



Emissions are falling: 39.5% below 1990 by 2024. Eurostat · data 1990-2024
"Largely on track" for 2030, if planned measures are delivered. EEA · published 2025

-47.4% to -53.9%
projected cut by 2030 vs 1990, existing / with planned measures (target: at least -55%)
EEA · published 2025 · projections for 2030

12.2%
of materials used came from recycled waste (2024). EU aim: double it "in the coming decade"
Eurostat · data 2024 · EU action plan · published 2020

2×
labour shortages (vacancy rate) in sectors key for the green transition, 2015 to 2021
European Commission · published 2023 · data 2015-2021

EU goals: at least -55% net emissions by 2030 vs 1990, climate neutrality by 2050. European Climate Law · published 2021
Safety and sustainability: two goals, one question for VET. our view

Sources: Eurostat env_air_gge (domestic net emissions incl. LULUCF; data 1990-2024) and cei_srm030 (data 2024); EEA, Trends and projections in Europe 2025; Regulation (EU) 2021/1119; European Commission, COM(2020) 98 (circular economy action plan) and COM(2023) 62 (Green Deal Industrial Plan).

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The EU strategy: bring these numbers down

EU strategic framework on health and safety at work 2021-2027



Vision Zero

for work-related deaths

EU framework · published 2021

Its three key objectives EU framework · published 2021

Anticipate and manage change

from the green, digital and demographic transitions

Improve prevention

of workplace accidents and illnesses

Increase preparedness

for any potential future health crises

Is prevention working? The goal is Vision Zero, but fatal accidents at work have barely moved since 2021.

our view Eurostat · data 2021-2024

It strengthens prevention culture, **"both in organisations and among individual workers"** EU framework · published 2021

Sources: European Commission, EU strategic framework on health and safety at work 2021-2027, COM(2021) 323 (published 2021); Eurostat, hsw_n2_02 (data 2021-2024).

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The challenge, and our part

From strategy to practice: training and education are part of the bridge

Strategy

Safety
Vision Zero, prevention
EU framework · published 2021

Sustainability
climate neutrality by 2050
European Climate Law · published 2021



The challenge: getting from strategy to practice

Practice

safe and green work,
every workshop, every site

Safety: a precondition for Vision Zero is **"occupational safety thanks to training and education"** EU framework · published 2021

Sustainability: **"IVET and CVET should strive to embed skills for sustainability in their regulations and practices"** Osnabrück Declaration · published 2020

Member States already act through national OSH and green-transition strategies. EU framework · published 2021 EEA · published 2025

What has your country or organisation already tried? Bring it to your table.

Sources: European Commission, EU strategic framework on health and safety at work 2021-2027, COM(2021) 323; Regulation (EU) 2021/1119 (European Climate Law); Osnabrück Declaration on VET (30 Nov 2020); EEA, Trends and projections in Europe 2025 (Member States' climate policies and measures).

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Does safety and sustainability belong in every programme you run?

Your answer:

- **A** Yes, in every programme
- **B** In most programmes
- **C** Only in some programmes
- **D** Not sure yet

Answer in the app. We will ask again after the table work.

How to vote: 1 Scan the QR 2 Tap A, B, C or D 3 Press Submit

Or type safetyacademia.edu.ge/workshop/vote1.html

Scan to vote

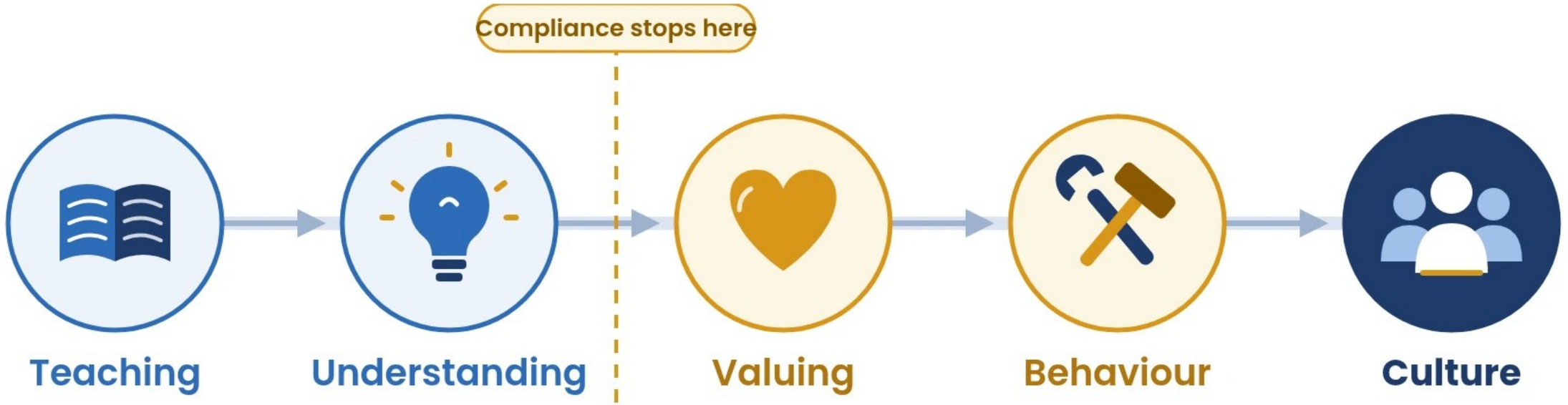
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Did we build compliance when we meant culture?

Culture is values plus behaviour, and you cannot issue a value



Rules, posters and signatures reach this far

Built by education, carried on at work

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Culture is an education problem that shows up in workplaces, not a workplace problem that education can help with.

our position

Understanding is built through knowledge applied in work the person recognises as their own. A rule, a poster or a signature cannot transmit it.



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Knowing does not produce doing

I do not think we have solved this. Here is my hypothesis — argue with it.

Relevance

Not safety in general — safety inside their trade. A chef internalises the fryer, not a risk lecture.

Practice

A value becomes behaviour through repetition under supervision. Workshops, kitchens, sites, simulators.

Assessment

If it is not assessed it is optional, and everybody works that out immediately.

Modelling

Learners copy what the trainer does. A trainer who skips the guard teaches more in that moment than the module does.

Which of these does your system already do well?

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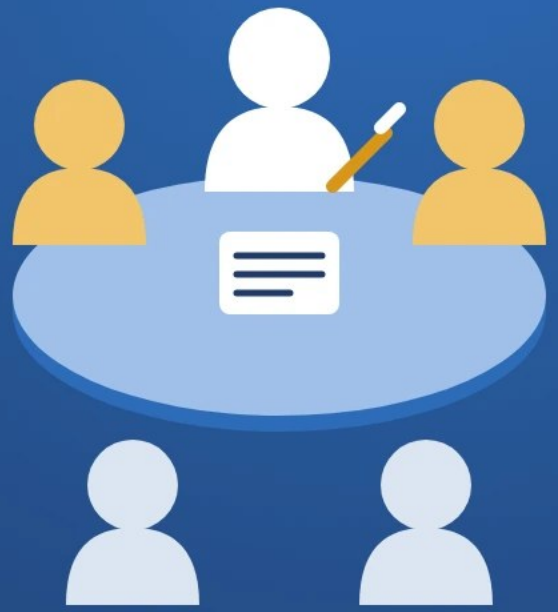
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TABLE CHALLENGE

SAFETY ACADEMIA

Table challenge starts now

35 minutes at your table



Voice of the Team writes, everyone contributes.

TABLE CHALLENGE

Why four questions?

Safety and sustainability meet inside the same task



1. One task touches four circles: **1 Worker controls** (the worker), **2 Others affected** (the people around them), **3 Resources used** and **4 Longer effects** (over time).
2. Safety and sustainability meet **inside the same task**, not in two separate subjects.
3. So trainers can teach and assess both **in one go**, instead of adding two extra modules. our approach

The Osnabrück Declaration on VET: "IVET and CVET **should strive to embed skills for sustainability in their regulations and practices.**"
Osnabrück Declaration · published 2020

Source: Osnabrück Declaration on VET as an enabler of recovery and just transitions to digital and green economies (30 Nov 2020). The four questions are this workshop's method, not an EU standard.

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TABLE CHALLENGE

One task, four questions

Ask them of any task, in any sector. Same wording as on your table canvas.

THE QUESTION	WHY IT MATTERS	RUNNING EXAMPLE: WELDING A METAL FRAME (EXAMPLE ONLY)
1 **Worker controls:** what could harm the person, what controls it?	**The person doing the task comes first.**	Arc light, hot sparks and fumes; screens, extraction and protective gear control them.
2 **Others affected:** colleagues, clients, public	**Harm does not stop at the person doing the task.**	Classmates near the bench could touch a hot workpiece or breathe the fumes.
3 **Resources used:** materials, energy, water, waste	**This is where sustainability enters the same task.**	Energy, metal and electrodes; offcuts and used electrodes become waste.
4 **Longer effects:** maintenance, reuse, end of life	**The effects last longer than the lesson.**	Fumes leave the workshop if extraction is not used well; offcuts sorted for reuse.

Wording as on the table canvas (Table canvas, workshop hub). Example: the worked example on the pair card and the four questions page; illustrative only, not safety instruction. “Why it matters”: our approach.

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TABLE CHALLENGE

If your table is stuck

Examples, not answers. Yours will be better.

YOUR TABLE	WORKER CONTROLS	OTHERS AFFECTED	RESOURCES USED	LONGER EFFECTS
1 **Construction and building services** e.g. installing a heat pump	Heavy lifts, ladders, live connections	Residents, neighbours, blocked routes	Unit, pipes, refrigerant, packaging	Servicing access, refrigerant recovered
2 **Agriculture, food and land-based** e.g. applying a plant protection product	Skin and breathing contact when spraying	Neighbours, bees, livestock, drift	Product, rinse water, fuel, containers	Residues in soil and water, containers returned
3 **Energy and technical trades** e.g. isolating a solar PV string	Live panels, work at height, heat	Occupants; anyone who could switch it on	Parts, travel to site, test kit	System output over its life, panel recycling
4 **Automotive and mechanical** e.g. changing engine oil and filter	Hot oil, raised vehicle, skin contact	Colleagues on spills; the customer	Oil, filter, absorbent, rags	Used oil and filters recycled, drains kept clean
5 **Welding and metalwork** e.g. welding a metal frame	Arc light, hot sparks, fumes	Classmates near the bench	Energy, metal, electrodes	Fumes outside if extraction fails; offcuts reused
6 **Hospitality and kitchens** e.g. deep-frying and changing fryer oil	Burns from hot oil, slippery floors	Colleagues; guests with allergies	Oil, energy, cleaning products	Used oil recycled, never down the drain
7 **Tourism and events** e.g. setting up an outdoor event area	Lifting, weather, cables, structures	Guests, crowd routes, emergency access	Power, water, transport, single-use items	Waste on site, ground damage, reusable kit
8 **Health, medical care and pharmacy** e.g. sharps and unused medicines	Needlestick injuries, medicine contact	Patients, visitors, cleaners, porters	Single-use items, packaging, containers	Medicines kept out of water, waste sorted
9 **Open table** IT, logistics, labs, services, woodwork, any other	What could harm the person doing it?	Who is nearby, or relies on the result?	Materials, energy, water, waste?	What is left over, and what happens later?

Short examples only. Scan your table's QR code: your table page has one full worked example for your sector. Task, four answers, what an assessor could see.

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Your 35 minutes

Table challenge, 14–49′: five steps, one thing to hand in



Four questions
Learn the four questions on one worked example.

Pair card
With your neighbour: one task, the four questions.

HAND IN

Table canvas
One task for the table: map it, design it, submit it.

Challenge
Swap with another table: one objection each.

One sentence
Agree your sentence and your Voice of the Team.

☑ ☑ ☐ **Team checklist** runs along the whole path: tick as you go. Ticks stay on your phone.

49′ Back to the room. Only the table canvas is handed in. The sentence and the pitch are spoken (pitches 52–57′).

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The exercises

What you do at your table, and what you hand in

EXERCISE	WHAT YOU DO	WHAT YOU HAND IN
Four questions 14–17′ · worked example	Ask them of any task. Add what the provider or employer must supply.	Nothing. You use them in every step.
Pair card 17–20′ · two people	One answers, one writes: a task and the four questions. Then switch.	Nothing. Share your example if you like.
Table canvas 20–39′ · one task	One task, the four questions, an outcome, practice and an assessment you can see.	HAND IN Submit from your table page (or paper).
Challenge 39–49′ · sentence, pitch	Swap: write one objection, revise yours. Then one sentence and a short pitch.	Nothing. The sentence and pitch are spoken.
Team checklist whole session	Tick each step as you go.	Nothing. Ticks stay on your phone.

FULL INSTRUCTIONS AND SHARE YOUR EXAMPLE

Full instructions for every step: scan your table's QR code to open your table page.
Share one example from your own context or programme on the hub, now or after the session. No name or email needed.

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BACK TO THE ROOM

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AFTER THE TABLE WORK · SAME QUESTION, SECOND TIME

Has your answer changed?

The question:

Does safety and sustainability belong in every programme you run?

- **A** Yes, in every programme
- **B** In most programmes
- **C** Only in some programmes
- **D** Not sure yet

How to vote: 1 Scan the QR 2 Tap A, B, C or D 3 Press Submit

Or type safetyacademia.edu.ge/workshop/vote2.html

Scan to vote

anonymous, no name

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Share your photos

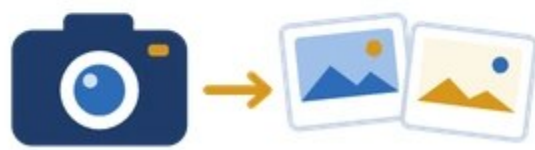
Everyone can see and download them.

1. Scan the QR code, or open the upload page
2. Take or choose a photo of your table
3. Tick the consent box and press Upload

New photos are checked before they appear in the gallery.
Only upload photos you are happy to share.

Scan to upload a photo (with consent)

safetyacademia.edu.ge/workshop/gallery-upload.html



Vote: which table presented best?

How voting works (QR 3)

1. **Scan, then vote for the table that presented best**
2. **One vote per phone**
3. **You can't vote for your own table**
4. **Judge on:**
   - A clear one-sentence outcome
   - Covers both safety and the environment
   - Practical: something a college could really use
   - Clearly presented in the time given
5. **Results appear when voting closes. Ties: facilitators decide.**



A shared brainstorm: every table gets a thank-you.

safetyacademia.edu.ge/workshop/vote3.html

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Your certificate

Thank you for thinking, sharing and building with us.

1. Scan the QR code, or open the certificate page
2. Enter the session code (announced now)
3. Type your name, choose your table, add your email
4. Download your participation certificate

If your team chose you as its Voice, download that certificate too.
One person can take both.

safetyacademia.edu.ge/workshop/certificate.html
Certificate page

Tell us how it went
1 minute, anonymous
(email only if you want the follow-up)
safetyacademia.edu.ge/workshop/feedback.html

Download it now if you can. The page stays open until midnight Brussels time today.
Download failed? Tick "please email my certificate to me later" and we email it after the workshop.

Your name, table and email are recorded to issue the certificate. News from Safety Academia is a separate, optional tick.