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ESTEEM

European Safety Training and Evaluation supporting
European Mobility

WALL 1

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Materials were developed by: **UNIBO Team**

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IIPLE Team

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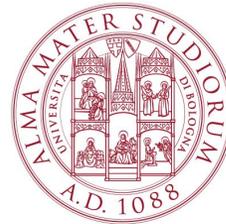
All the partners of the project collaborated and supervised the Safety Training Package Development



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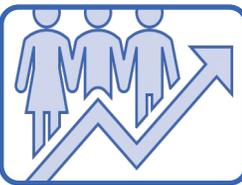
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Today we will talk about:



Added value of ESTEEM project 

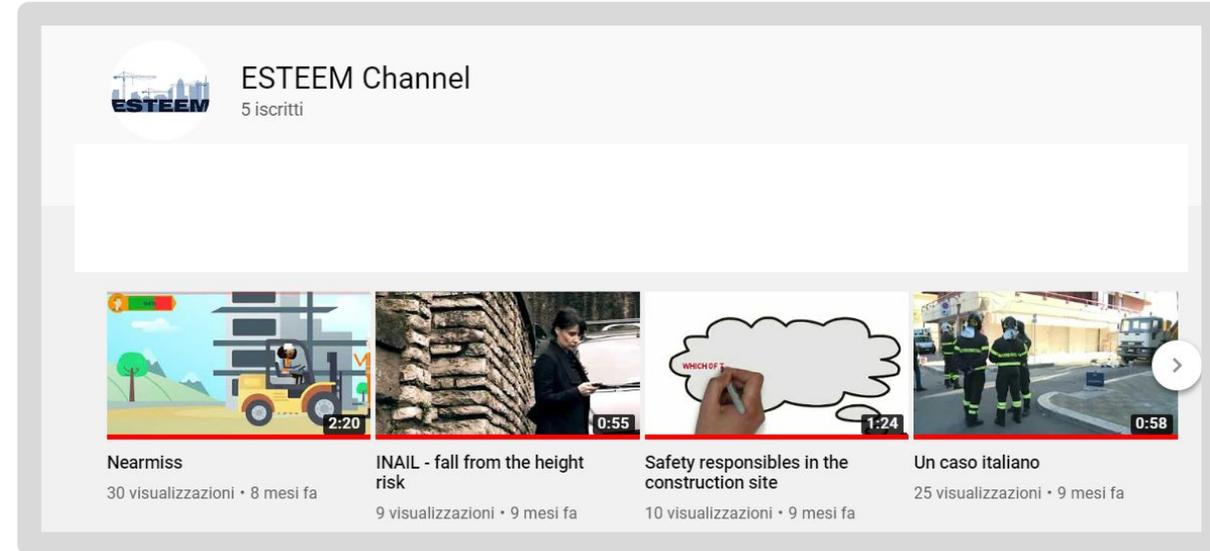
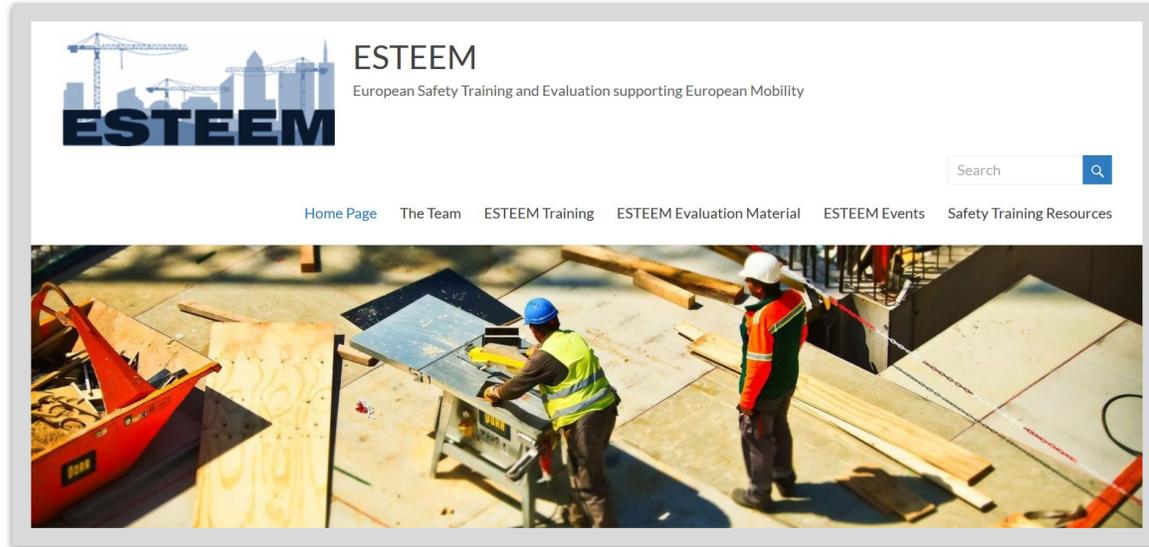


Difference between technical and non-technical skills at work



Near misses





ESTEEM project presentation: Partners

Leader



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Strategic partner



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ESTEEM project presentation: main objective

Supporting and promoting quality in occupational **safety training**, specifically for the most **disadvantaged** (migrants or low-skilled) **workers** in the **construction sector**



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Esteem
@safetystemeem

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ESTEEM

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Why is the online platform useful?

1. Repeat and review training content learned



2. Learn more about safety at work



3. Games to test what you've learned





Sign In

Username

Password

Log in

[Forgotten your username or password?](#)



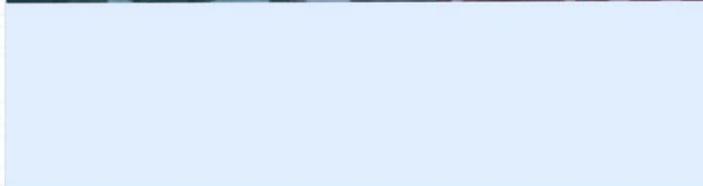
Sign in!

It only takes

5 minutes

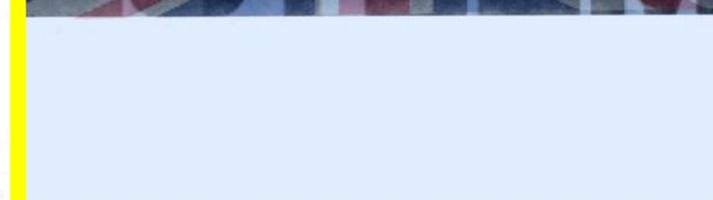
Visit the section related to your country of reference

Available courses



ESTEEM Corso sulla sicurezza

Category: [it](#) Italiano



ESTEEM Safety Training

Category: [gb](#) English



ESTEEM curso de seguridad

Category: [es](#) Spanish

View the content of each wall

- ▶ Project presentation
- ▶ Wall1
- ▶ Wall2
- ▶ Wall3
- ▶ Wall4
- ▶ Wall5
- ▶ *Trainer section*
 - ▶ **Hidden from students**
- ▶ Materials
- ▶ Credits

In each wall you can find different kinds of content



**GAMES
TO PLAY**



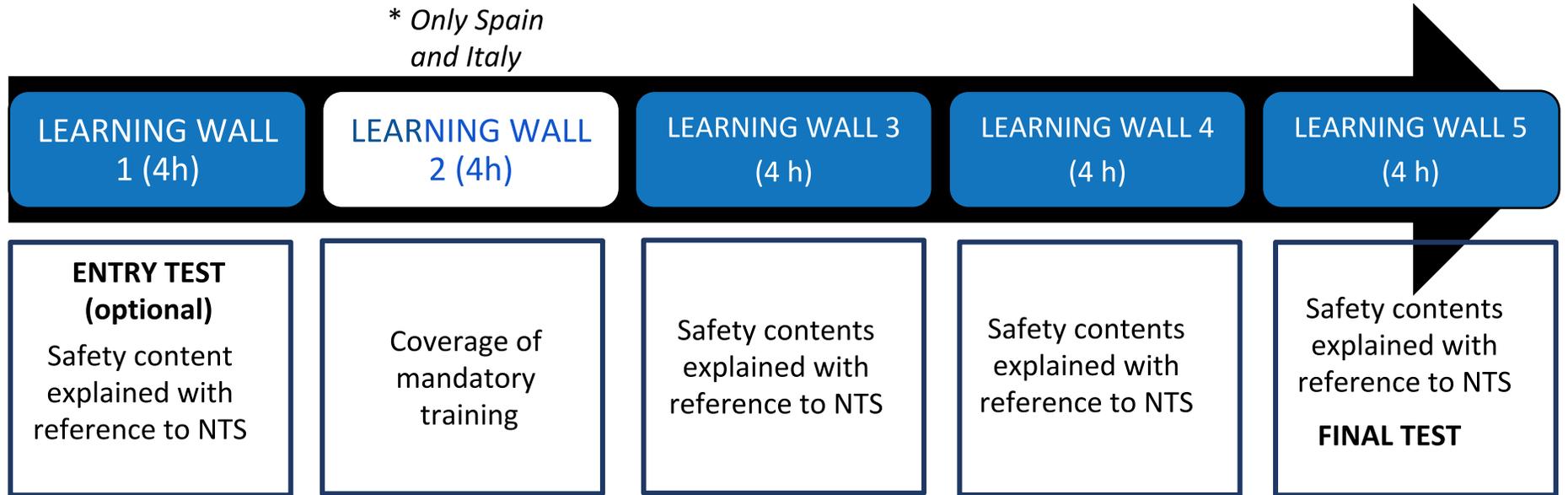
**APP
E LINK**



SLIDES

Structure of training course

CLASSROOM
TRAINING



E-LEARNING WALL (4 h) Gaming on the online platform

*The content of Wall 2 is only included in the Spanish and the Italian version as the content is covered by the Construction Industry Training Board in the UK

"Getting to know each other"!



1) *What is your name?*



2) *Where are you from?*



3) *What is your job?*

4) *In your opinion, what does work safely mean?*



5) *What are your expectations about this course?*



Course contents in classroom 1/2

- **Concept** of prevention, protection, accident, occupational disease, hazard, risk assessment
- Organization of prevention and risk assessment
- Basic **theoretical notions** on: hazards, signage, PPE, training obligations



Course contents in classroom 2/2

- **Hazards** in the workplace
- **Safety signs**
- Work in conditions of physical stress, time pressure, alcohol consumption
- **Emergency management**



Added value of the course

The classic contents of mandatory safety training will be deepened with a focus on “non-technical skills” (NTS) and using **participative teaching** methods



Video Analysis

Watch the video focusing on the following questions

- *What happened in the situation?*
- *What are the **elements, steps, procedures** and conditions that contributed to the accident?*
- *Do you think such causes **could have been avoided?** If yes, how?*



Technical skills vs. non-technical

Within the work context, people use their skills to perform the work required by their role. These, in particular, can be traced back to two macro categories:



Technical skills



Non-technical skills

Technical skills

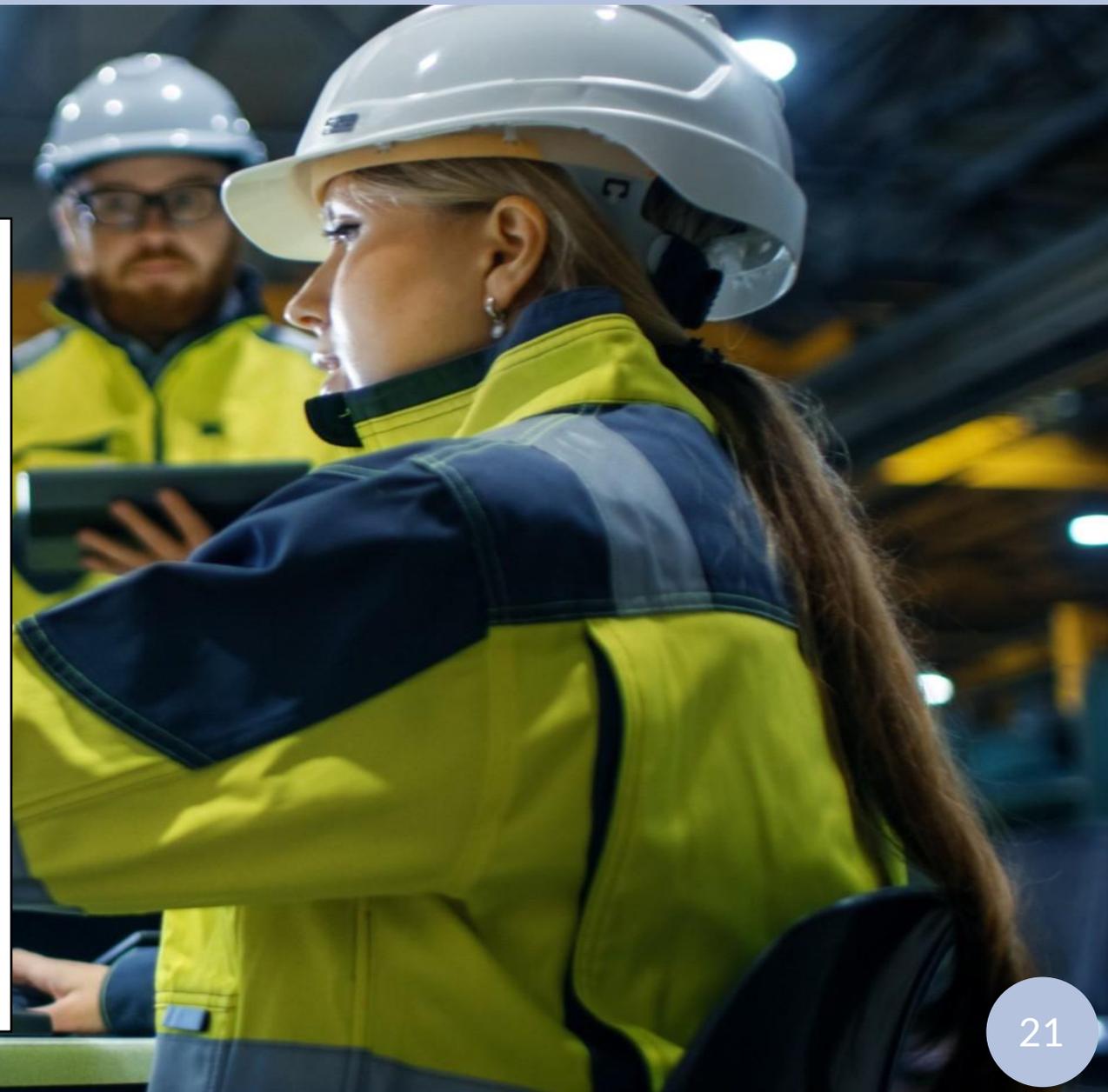
Technical skills refer to the set of skills related to the "technical" performance of a job in safety (such as *knowing how to use* the tools according to the safety rules)



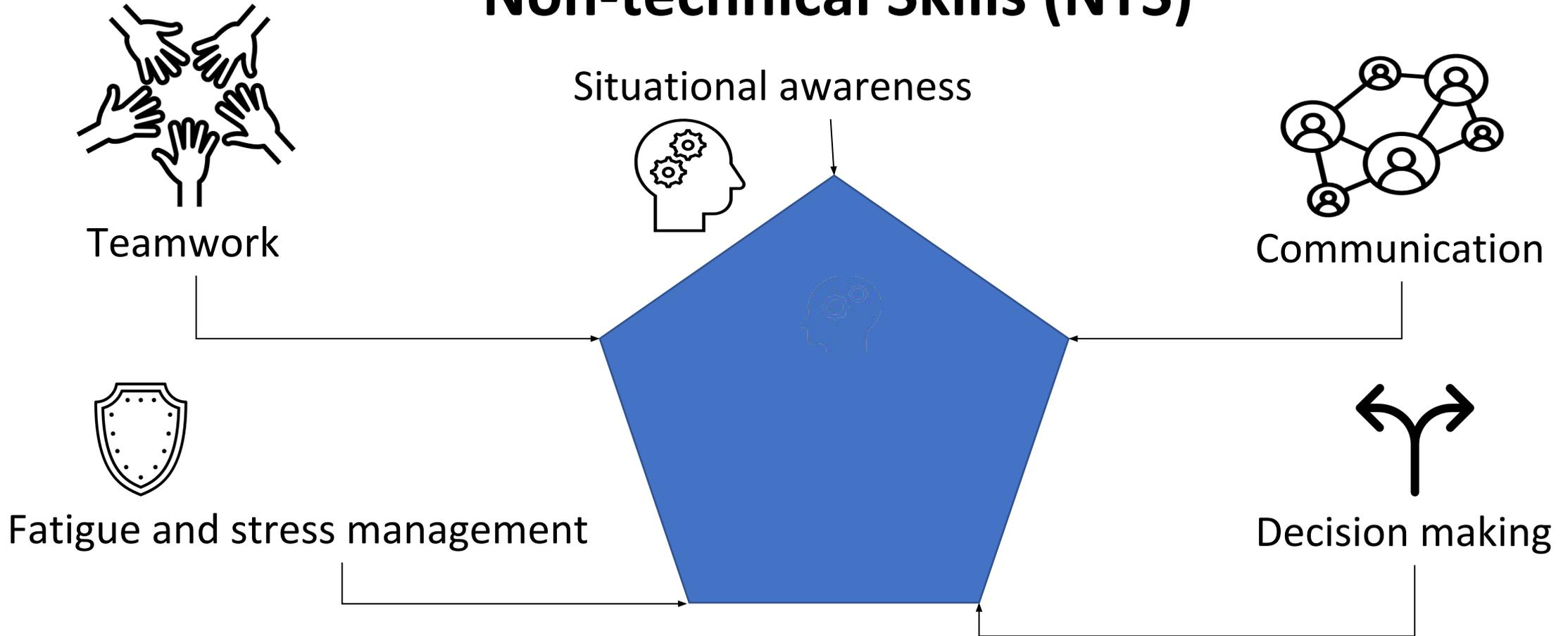


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Non-technical skills include *cognitive, social and personal skills* that, together with technical skills, help us to work safely.



Non-technical Skills (NTS)



NTS definitions: situational awareness

Monitoring the workplace by observing what happens and *identifying potential hazards* is related with Situational awareness



NTS definition: communication

The communication concerns the ability to *receive and transmit information* relevant to one's own safety and that of other people and the environment



NTS definitions: decision making

The precise decision concerns the ability to *formulate judgments and/or reach a choice* by evaluating the options available on the basis of safety.



NTS definition: fatigue and stress management

Fatigue and stress management refers to the process that allows the worker to *cope with difficult situations* in the workplace, preventing risky situations (for example in case of tiredness)



NTS definition: **Teamwork**

The ability to *work with other* people by promoting their own safety and that of others



Competence
(I can do it)

*

Motivation
(I want do it)

=

Performance



Technical Skill and Non
Technical Skills

*



=

Motivation for Safe
Behaviour



Safe / Unsafe
Performance

Situational awareness

This video will show how we are exposed to numerous dangerous hazards on a daily basis.

While watching the video please **individually note** down the dangers and hazards the protagonist is exposed to.





Situational awareness

Sources of hazard are ever present in day to day life. It is therefore important to pay attention to the *elements of the environment* that can expose us to *dangerous situations*.



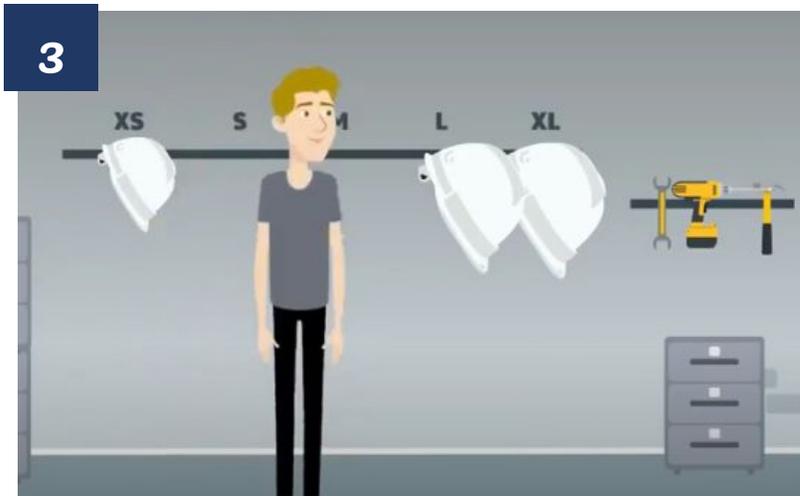


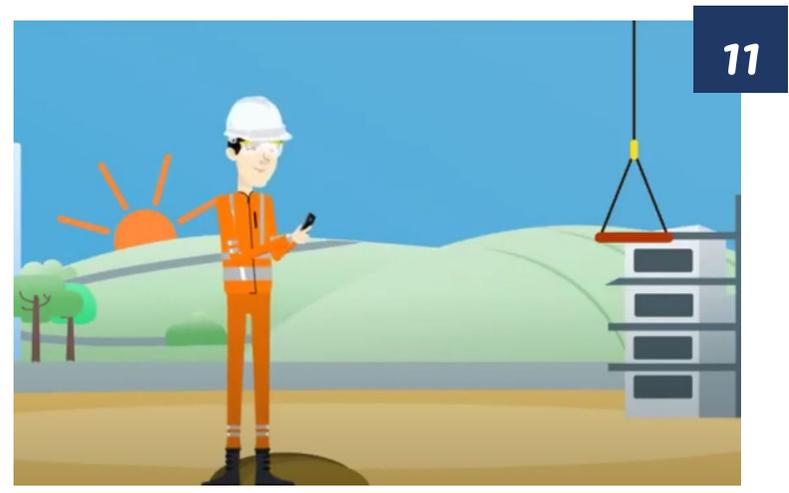
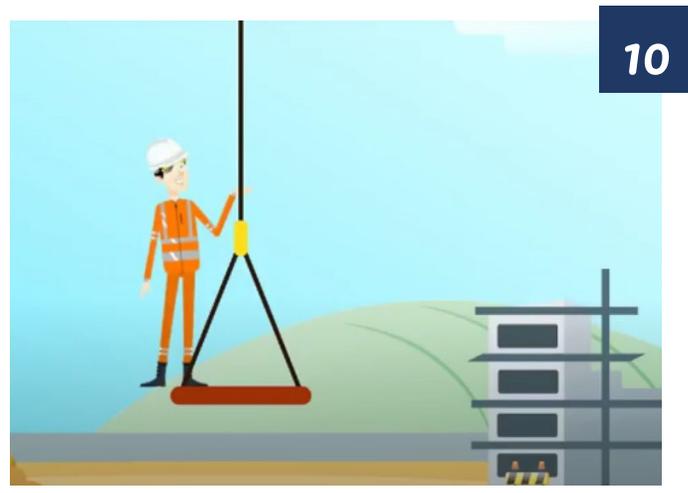
Situational awareness

watch this video and keep in mind the following questions

- *What **situational/ contextual elements** expose the protagonist to risky situations?*
- *What **hazards** is the protagonist in the video exposed to?*
- *How often do you find yourself (in your work or life context) in **similar situations** like the ones shown in the video?*





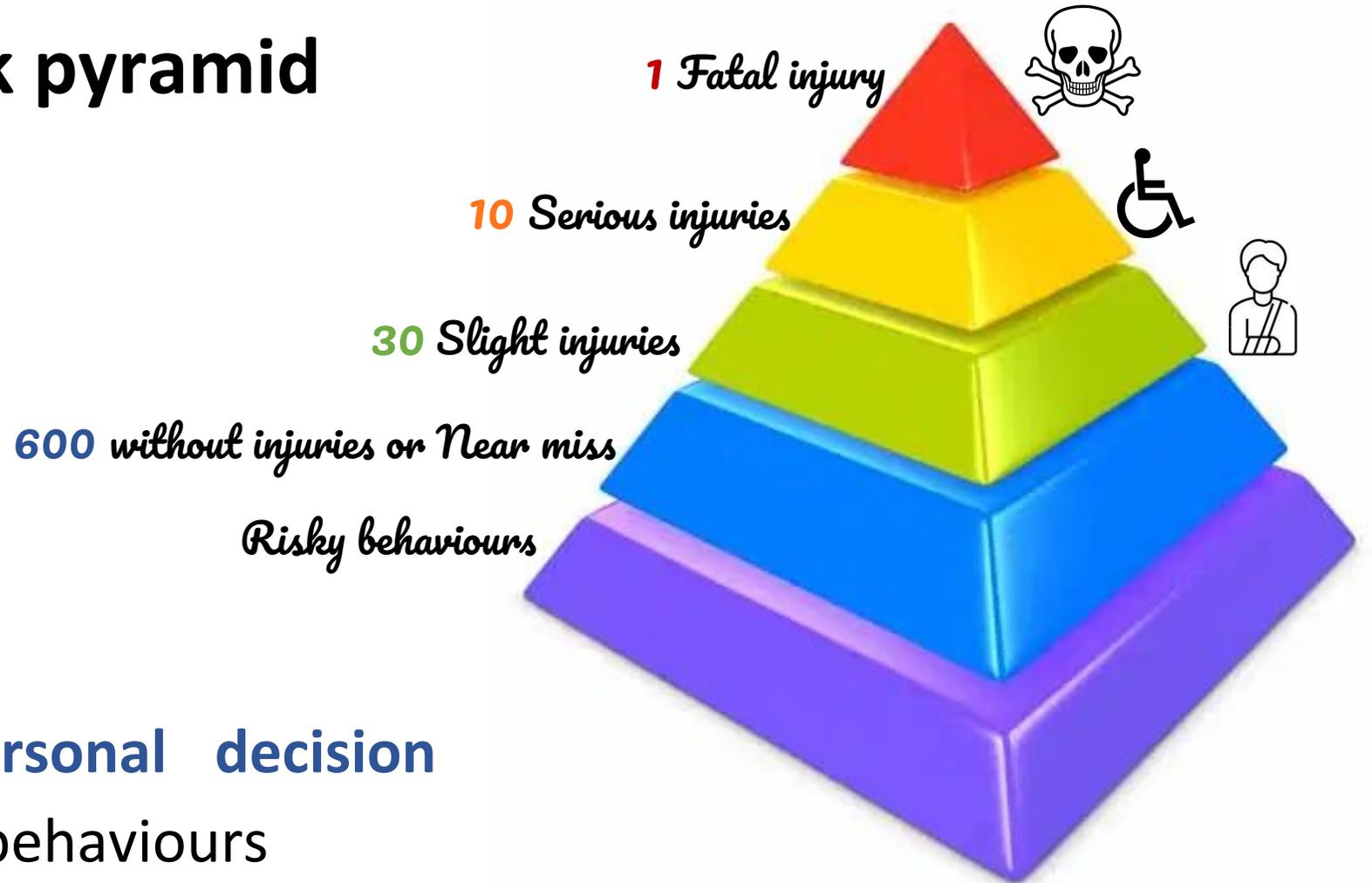


From Cartoon to real life (Some examples)





Risk pyramid



Injuries depend on **personal decision making** to perform risky behaviours



How many work-related accidents happen (in 2017) every day?

81

= about 3.4 an hour





**How many FATAL
work-related accidents
happen (in 2017)**

95

**= 1 fatal accident
every 4 days**

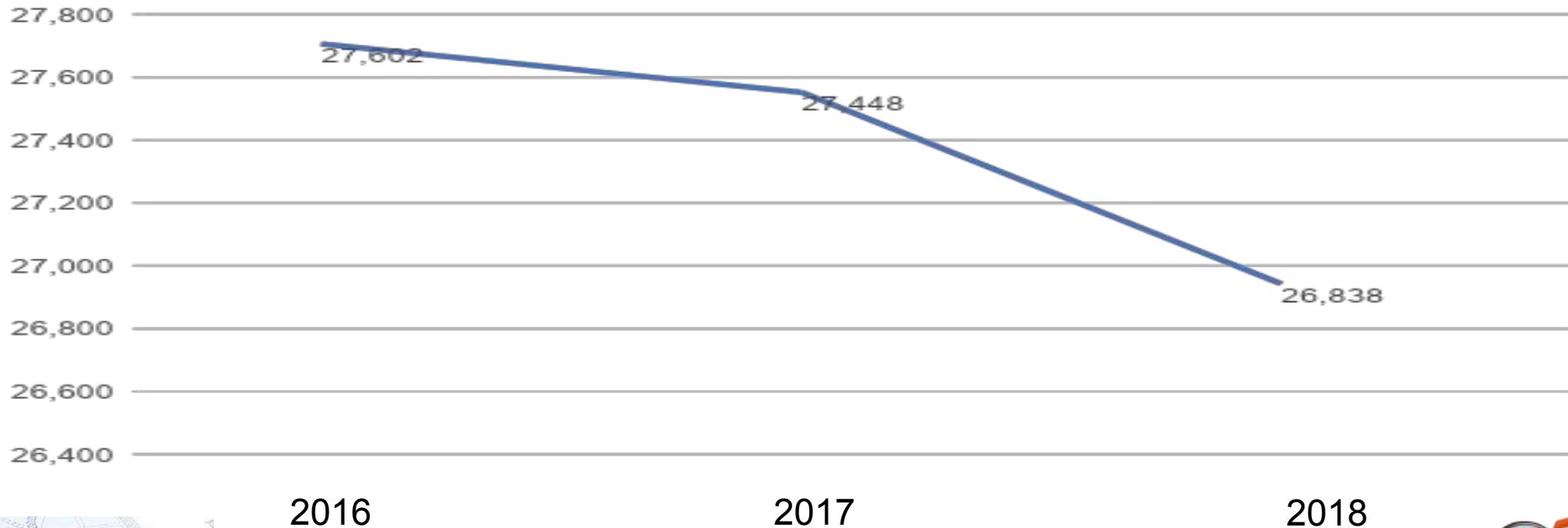


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Number of work-related accidents (IT)

Number of accidents in construction sector



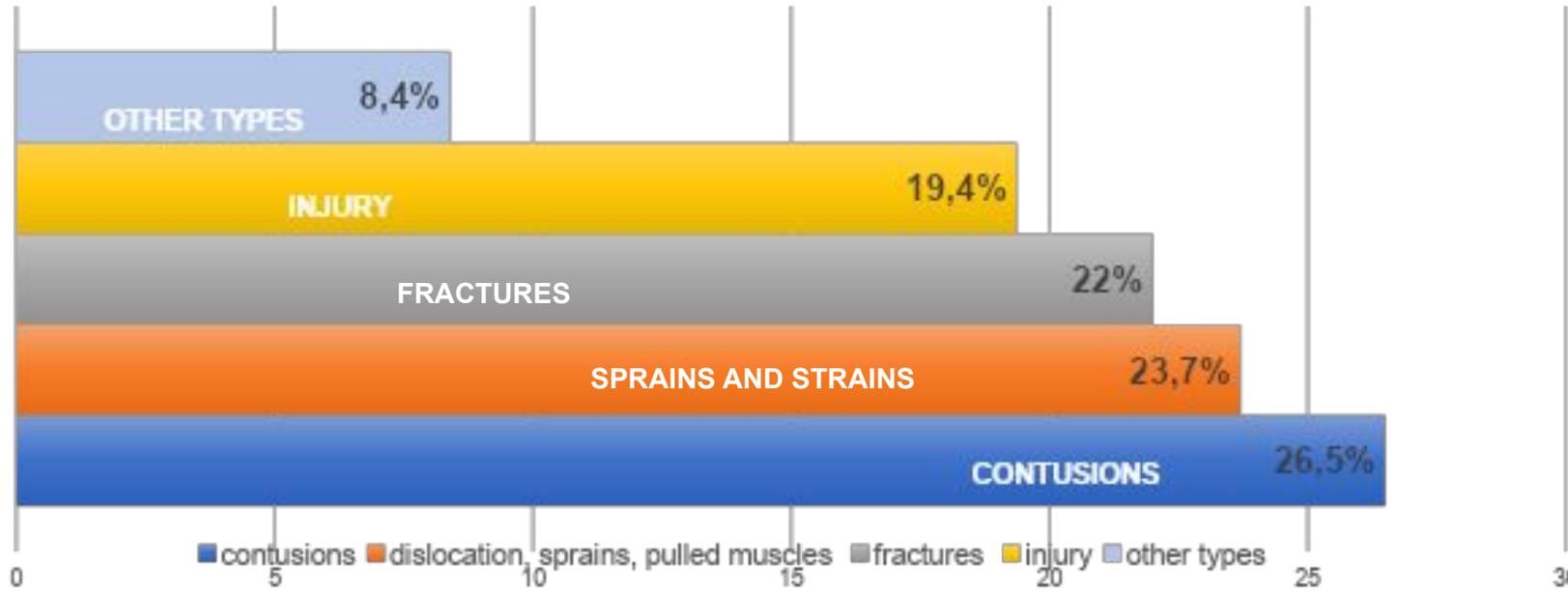
Downward trend between 2016 and 2018



Types of injury (IT)



Year 2018



DATA SERIES 2018
Accidents in Constructions Sector



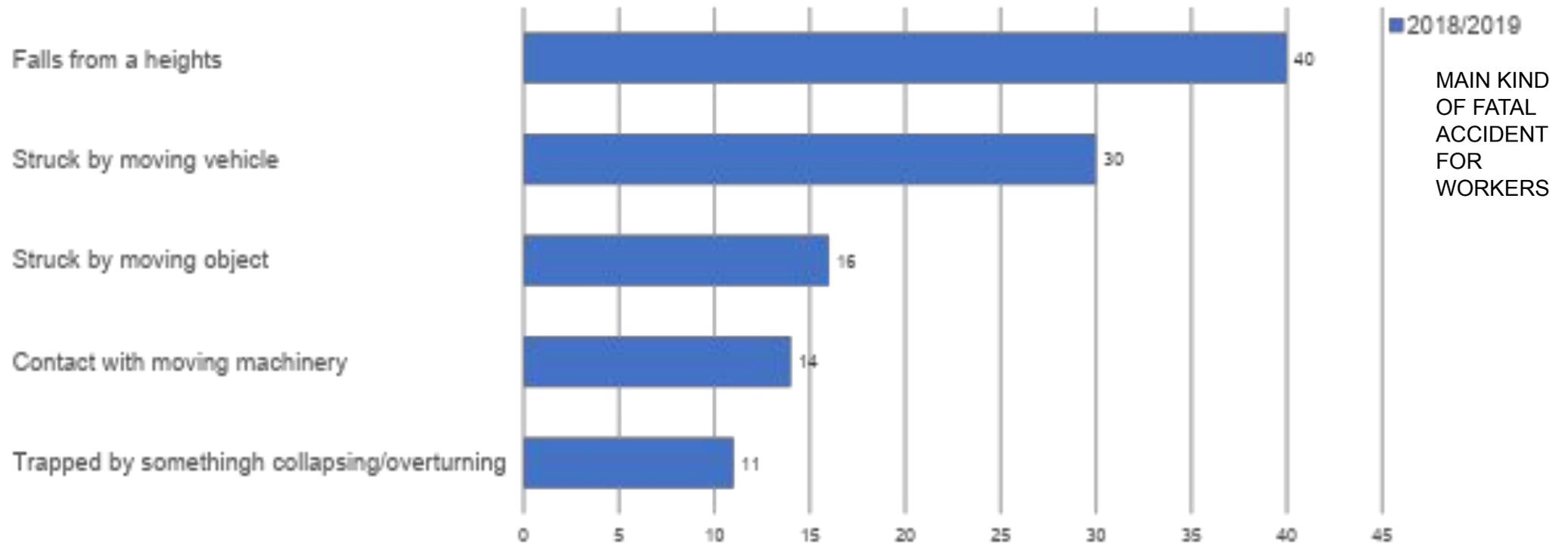
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Types of fatal accidents in the workplace (UK)



Health & Safety Executive (HSE) Report 2019 and 2018



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Rate of fatal injury per 100 000 workers, (UK)



Changes over time



Health & Safety Executive (HSE) (2018). Construction statistics in Great Britain, 2018. Annual Statistics Report by the Health & Safety Executive (HSE), 31st October 2018. Available to download from: <http://www.hse.gov.uk/statistics/industry/construction.pdf>



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**How many fatal
work-related accidents
happened every day?**

**1 fatal accident
every 4 days**



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Number of work related accidents in Spain (2018)



73 *fatal* accidents / **year**



0.29 *fatal* accidents / **day**

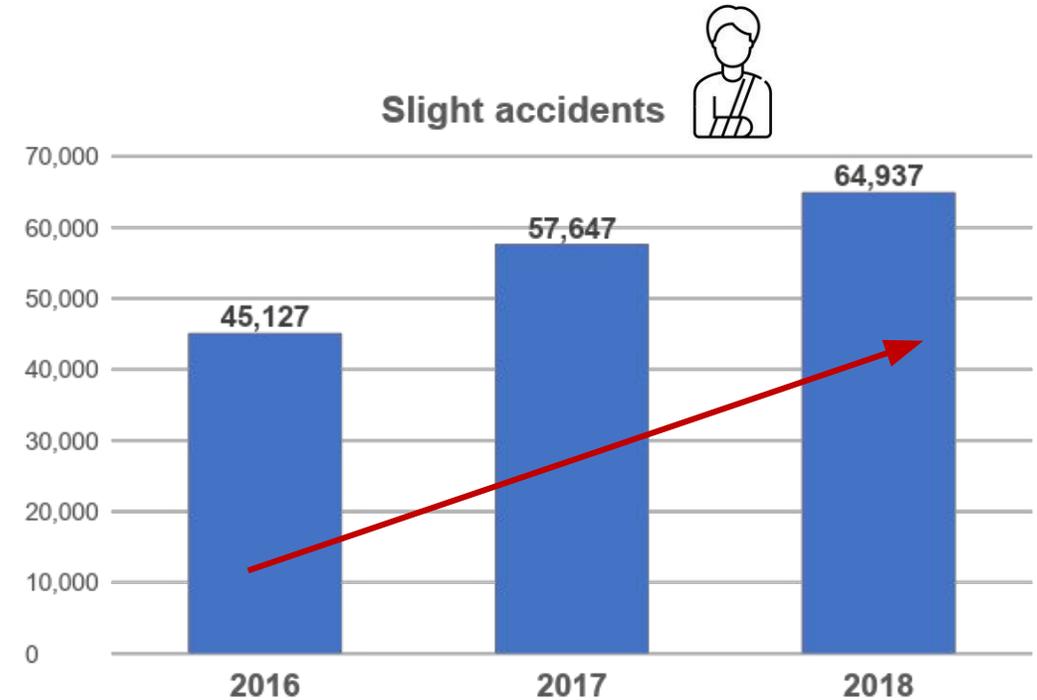
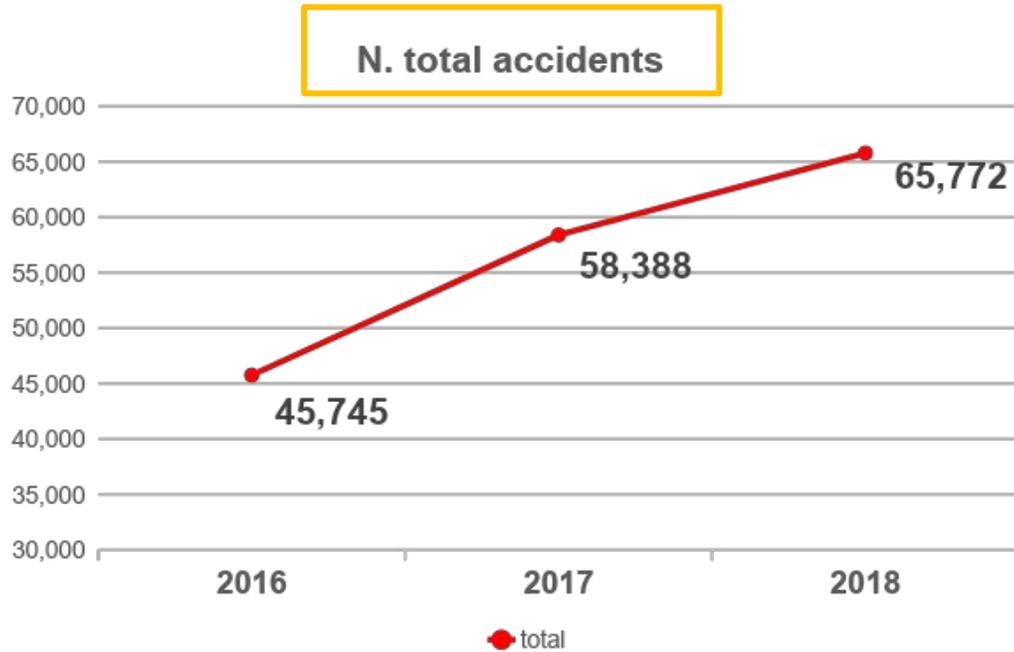
762 *serious* accidents / **year**



3.04 *serious* accidents / **day**

3.33 accidents (serious or fatal) / **day**

Evolution of accidents in construction sector



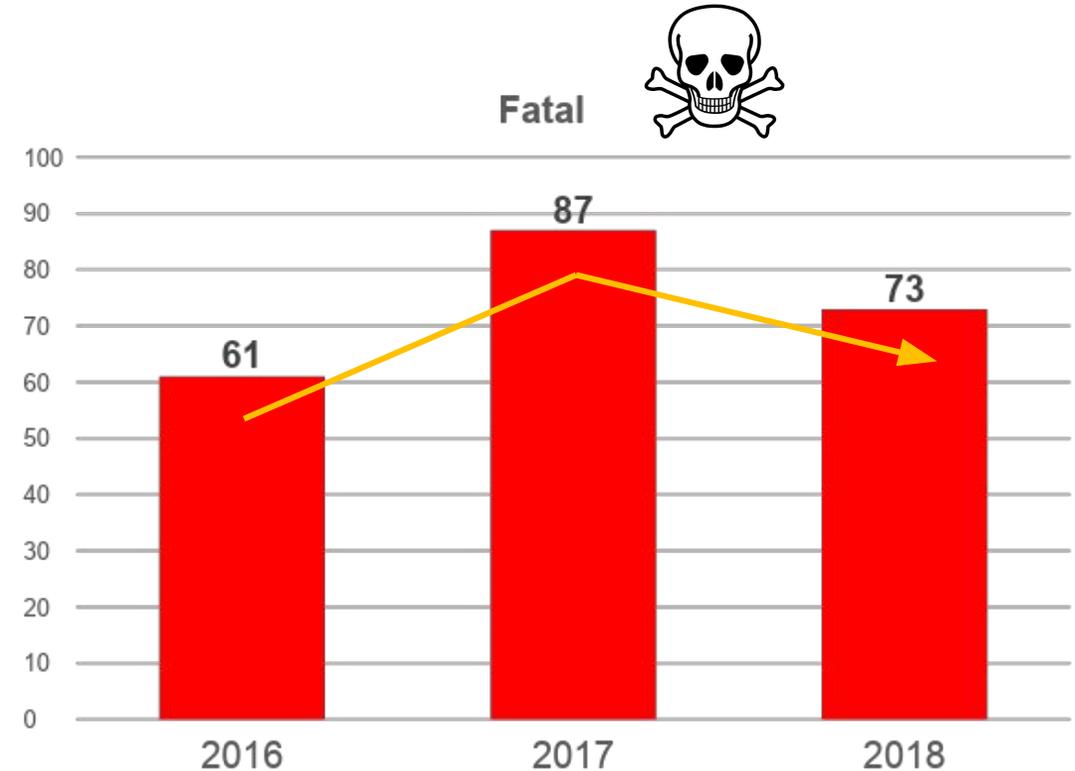
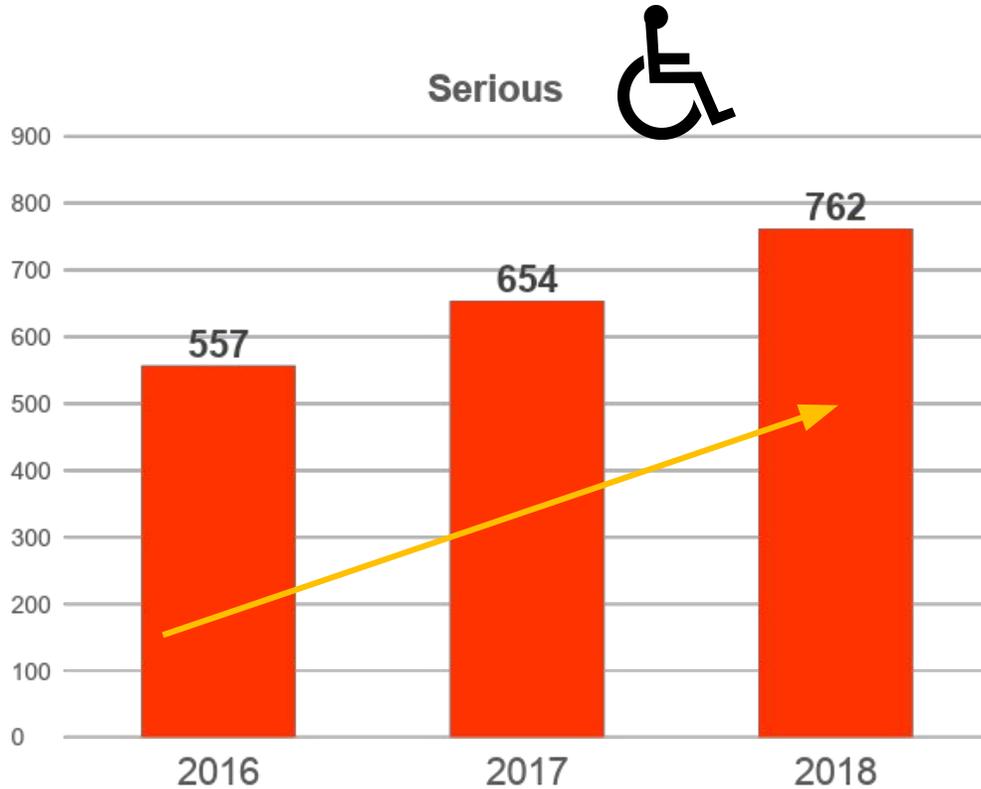
Source INSST - INE



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Evolution of accidents in construction sector



Source INSST - INE



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Accidents versus Near Misses

A near miss event is an accident that did not happen, but could have done.



It is important to consider near misses because they help us to prevent future accidents.



Types of near miss accidents



Active errors that provoke immediate consequences (e.g. *Incorrect choice of protective equipment*)

Dormant errors or “silent” errors that are not noticed until they trigger an event (e.g. *making a hole in the pavement without reporting it or placing a border around it*)



Have you ever experienced similar situations?

Let's analyse this situation.

- A potential accident depends on: The *worker's behaviour*?
- The *worker's characteristics*? (e.g. Inexperience on the job or a new job)
- *Communication* between a group of people (workers)?
- *Incorrect use of tools* and equipment?
- What could happen?
- What could be done to avoid creating a risky situation or an accident?



GROUP EXERCISE

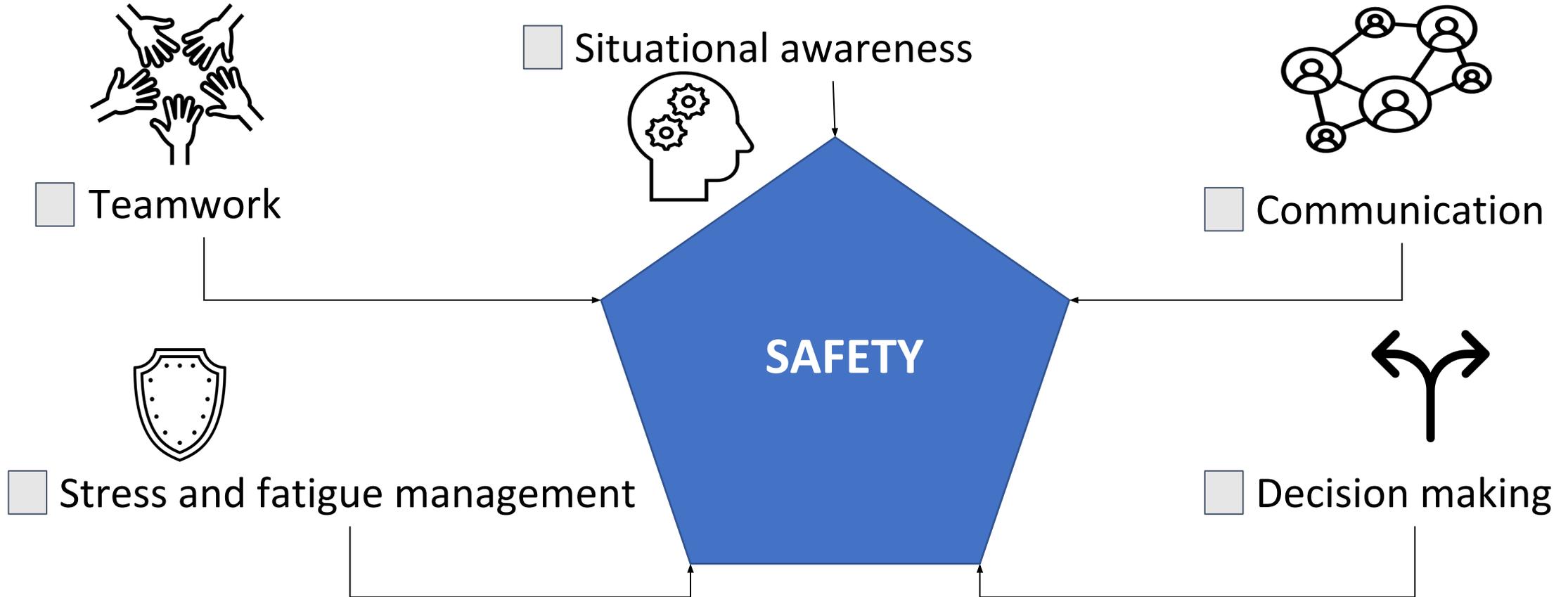
Form *groups of 4/5 people* and think about a case of a *near miss* accident you have *personally experienced* or that has happened to friends or colleagues and try to analyse the case according to the following questions:



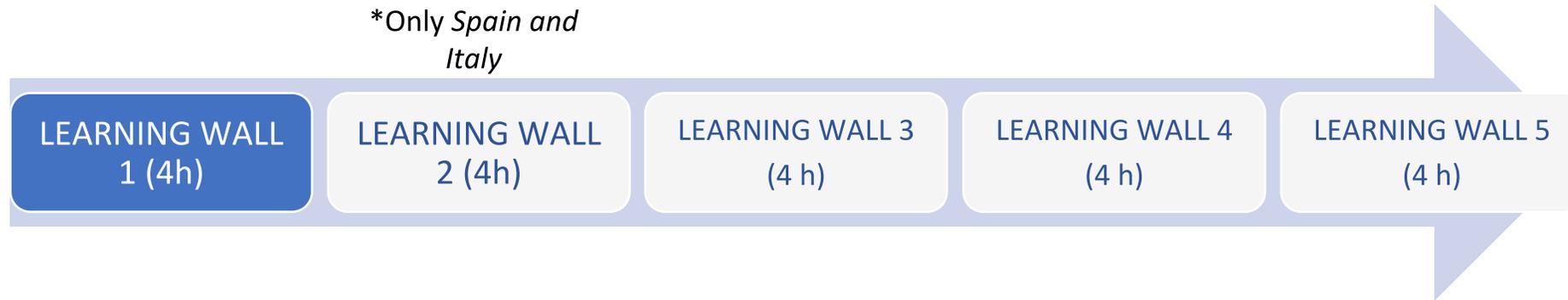
Exercise. Question guidelines

- *What happened?*
- *When did it happen?*
- *The near miss accident depended on: someone's behaviour?*
- *The person's characteristics? (inexperience on the job or a new job)*
- *Lack of communication between a group of people?*
- *Incorrect use of tools and work equipment?*
- *What could have been done to avoid creating a possible accident situation?*

What non-technical skills could be of use?

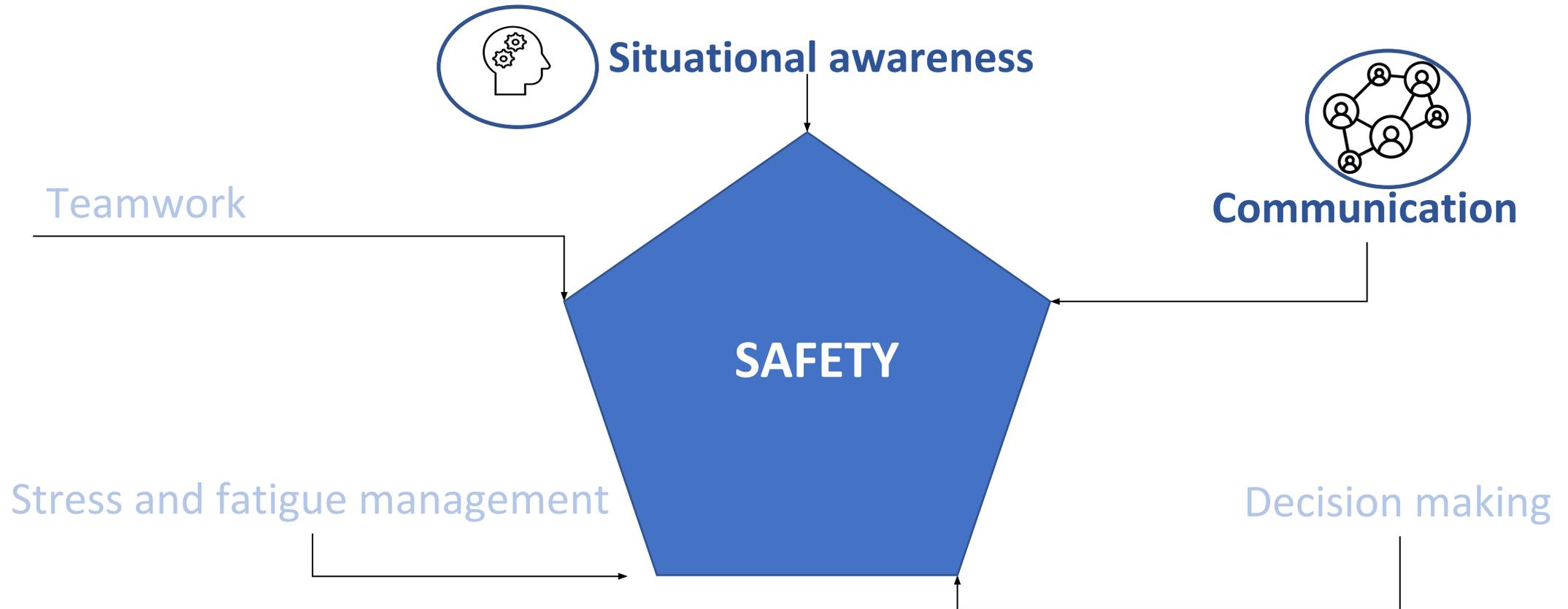


Learning contents of this lesson

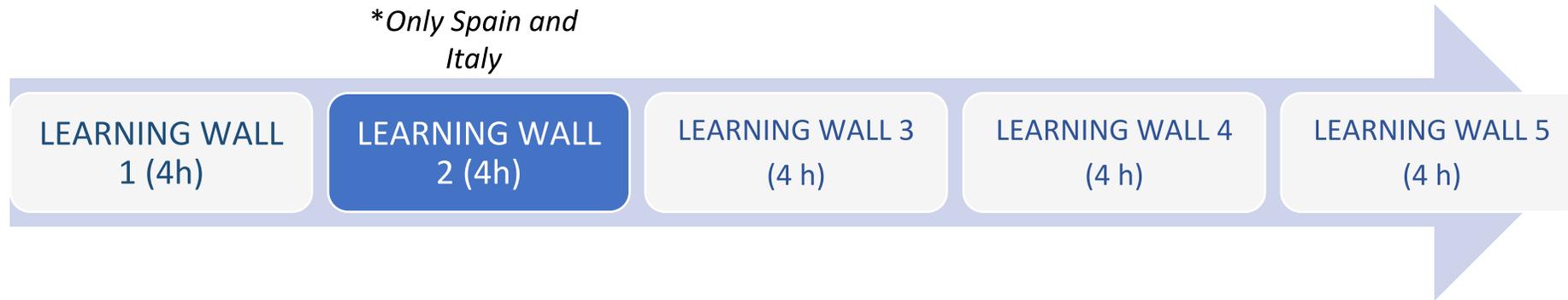


- The difference between technical and non-technical skills
- Near miss accidents

Detailed NTS in this lesson

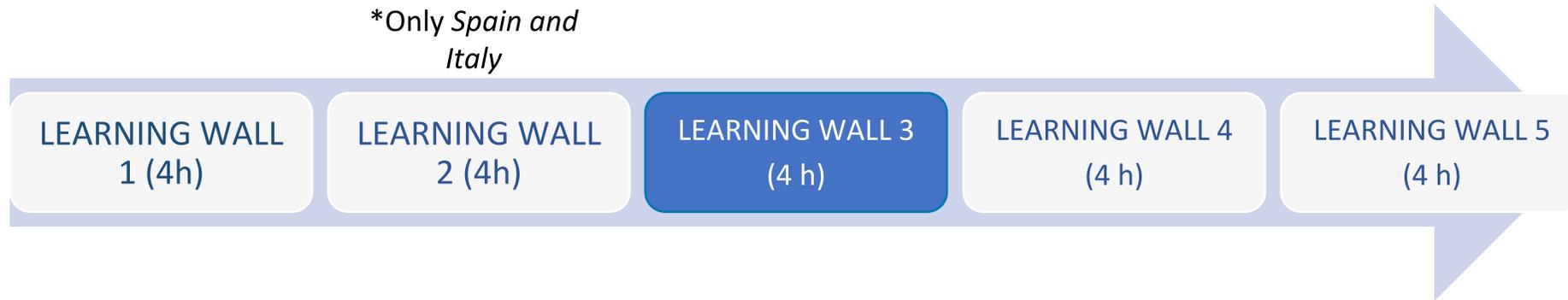


Contents of the next lesson (only Spain and Italy)



- Basic concepts on safety in the work place
- Organization of prevention and risk evaluation
- Basics on hazards, signposting, protection devices, training obligations

Contents of next lesson (United Kingdom)



- ✓ Mechanical, electrical, machinery and equipment hazard
- ✓ Hazard of falls from height and excavation explosions
- ✓ Physical hazard, noise, vibration in the work place
- ✓ Chemical hazard

Keep in mind!



Next lesson we will focus on chemical risk.

Which chemical products do you use more during your work?

Next lesson, bring with you the product you use more. You will use it during a group exercise.

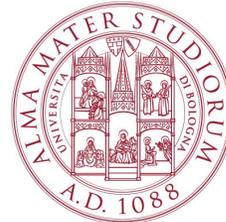




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WALL 1 - Contents of the online platform



SLIDES



1 ACTIVITY

