



101.1a – What the numbers say

Construction Safety Activity Pack



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Intro.

Health and safety is the foundation of every successful construction project. Without clear rules, training, and safe working practices, the risk of accidents, injuries, and fatalities rises sharply. This activity helps learners understand *why* health and safety matters by exploring real-world evidence — comparing construction accident statistics from **2014/15** and **2024/25**.

Through analysing these figures, learners will see how improved safety standards, better equipment, and stronger awareness have made construction sites safer over time. The numbers themselves tell the story: fewer injuries, fewer deaths, and healthier workplaces.

By the end of the activity, learners will be able to explain in their own words that **health and safety is important because it protects workers and saves lives** — the core message of Unit 101.1.1.

Aim:

To help learners understand **why health and safety is important** by analysing real HSE statistics and identifying how improved safety reduces accidents, injuries, and fatalities in construction.

Learning Objectives:

- **State** why health and safety is important in construction
- **Identify** changes in accident and injury statistics over a 10-year period
- **Explain** how health and safety measures help reduce harm
- **Give simple examples** of how improved safety protects workers

Activity Overview.

Learners work in pairs or small groups to compare **2014/15** and **2024/25** construction accident statistics.

They sort, match, and interpret the data using statistic cards and a structured worksheet.

The activity leads learners to the conclusion:

“Health and safety is important because it reduces accidents, injuries, and deaths.”

Why this activity helps!

This activity strengthens learners' understanding of **why health and safety is essential in construction** by linking theory to real-world evidence. By comparing accident and injury statistics from **2014/15** and **2024/25**, learners actively discover how improved safety practices have reduced harm and saved lives.

It develops key learning skills by encouraging learners to:

- **Interpret data** and recognise patterns in workplace safety trends
- **Apply knowledge** of health and safety principles to real construction contexts
- **Use evidence** to explain the importance of safe working practices
- **Communicate findings** clearly through discussion and written statements

The task promotes **critical thinking, numeracy, and professional awareness**, helping learners connect classroom learning to the realities of the construction industry. It also supports progression by reinforcing the core message of Unit 101.1.1 — that **health and safety protects workers, prevents accidents, and ensures safer sites for everyone.**

Student Instructions.

Step 1 — Reveal the Numbers

You will receive a set of mixed statistic cards. Your tasks:

- Sort them into **2014/15** and **2024/25**
- Record the numbers on your worksheet
- Highlight any numbers that look surprising

Step 2 — Spot the Changes

Answer the questions on your worksheet:

- Which numbers went **down**?
- Which numbers went **up**?
- Which accident types are still the **biggest problems**?
- What does this tell you about construction safety?

Step 3 — Explain What It Shows

Complete the key question:

“What does the 10-year comparison tell us about the importance of health and safety in construction?”

Use sentence starters if needed:

- “Health and safety is important because...”
- “The numbers show that...”
- “This means that...”

Lecturer Instructions.

Preparation

- Print and cut the **statistic cards** (I can generate these next).
- Print the **comparison worksheet** for each learner.
- Prepare a slide or board showing the starter question.

Delivery Notes

- Keep the activity discovery-based — let learners *find* the numbers.
- Encourage discussion in pairs before whole-class feedback.
- Prompt learners to use simple, clear statements for 101.1.1.

Key Messages to Reinforce

- Health and safety saves lives.
- Construction is safer today because of rules, training, and equipment.
- Without health and safety, accident numbers would rise again.

Scaffolding Options.

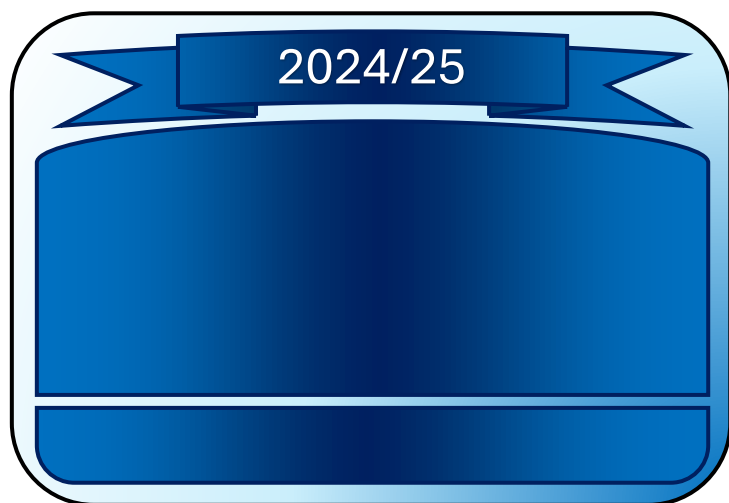
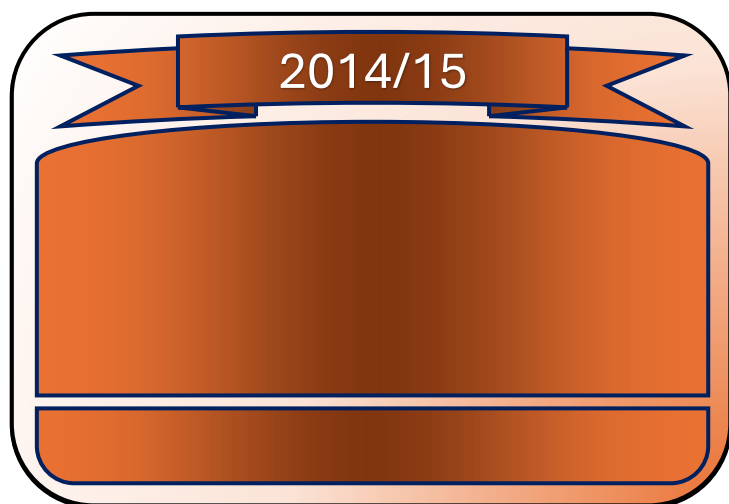
- Provide **colour-coded** statistic cards (e.g., blue = 2014/15, green = 2024/25).
- Provide **sentence frames**:
“In 2014/15 there were _____. ”
“In 2024/25 there were _____. ”
“This shows that _____. ”
- Use **arrows** ( ) to show increases/decreases.
- Provide a **word bank**: accident, injury, fatal, safer, rules, protect, workers.

Differentiation Strategies.

- Ask learners to explain *why* certain accident types remain common.
- Encourage them to link improvements to specific safety measures (PPE, training, RAMS).
- Add a short-written paragraph summarising the importance of H&S using evidence.

Printables.

- 2014/15 Statistic Card Set
- 2024/25 Statistic Card Set
- Comparison Worksheet



101.1: Know the importance of Health & Safety in the Construction Industry

Activity

101.1a: What the Numbers tell Us.

Statistic Cards 2014/15



City & Guilds

James Rix

2014/15



35

Fatal Injuries.

to construction workers

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Statistic Cards 2014/15



City & Guilds

James Rix

2014/15

74,000
Non-Fatal Injuries.



Self-Reported Accidents

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Statistic Cards 2014/15



City & Guilds

James Rix

2014/15



1.4m

Work related Ill Health

Workers suffered from work-related ill-health

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Statistic Cards 2014/15



City & Guilds

James Rix

2014/15

6,000
Falls From Height



Half of all Fatal Injuries

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Statistic Cards 2014/15



City & Guilds

James Rix

2014/15



600,000
New cases of Ill Health

caused by construction work

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Statistic Cards 2014/15



City & Guilds

James Rix

2014/15

32%
Musculoskeletal Disorders



of ill-health cases were back/joint/muscle problems

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Statistic Cards 2014/15



City & Guilds

James Rix

2014/15



1.7m
Lost Working Days

days lost due to ill health and injury

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Statistic Cards 2014/15



City & Guilds

James Rix

2014/15

7,200
Enforcement Notices



Half of all fatal injuries

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Statistic Cards 2014/15



City &
Guilds

James Rix

2014/15



660
Prosecutions

to construction workers

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Statistic Cards 2024/25



City & Guilds

James Rix

2024/25



24
Fatal Injuries.

to construction workers

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Statistic Cards 2024/25



City & Guilds

James Rix

2024/25

59,219
Non-Fatal Injuries.



Self-Reported Accidents

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Statistic Cards 2024/25



City & Guilds

James Rix

2024/25



1.9m
Work related Ill Health

Workers suffered from work-related ill-health

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Statistic Cards 2024/25



City & Guilds

James Rix

2024/25

4,738
Falls From Height



Half of all fatal injuries

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Statistic Cards 2024/25



City & Guilds

James Rix

2024/25



730,000
New cases of Ill Health

caused by construction work

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Statistic Cards 2024/25



City & Guilds

James Rix

2024/25



27%
Musculoskeletal Disorders

of ill-health cases were back/joint/muscle problems

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Statistic Cards 2024/25



City & Guilds

James Rix

2024/25



2.6m
Lost Working Days

days lost due to ill health and injury

101.1: Know the importance of Health & Safety in the Construction Industry

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101.1a: What the Numbers tell Us.

Statistic Cards 2024/25



City & Guilds

James Rix

2024/25



8,100
Enforcement Notices

Half of all fatal injuries

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Statistic Cards 2024/25



City & Guilds

James Rix

2024/25



780
Prosecutions

to construction workers



101.1a – What the numbers say

Construction Safety Activity Pack

Participant Info.

Team:

Individual:



Before you start!



Before You Start

This activity will help you learn why health and safety is important on a construction site. Before you begin, take a moment to think about what you already know.

Construction work can be dangerous if people don't follow the rules. Simple things like wearing PPE, using tools safely, and keeping the site tidy can stop accidents from happening. In this activity, you will look at real numbers from 10 years ago and today to see how safety has changed over time.

As you work through the tasks, remember:

- There are **no right or wrong guesses** — you are learning by exploring.
- Take your time and talk with your partner or group.
- Use the pictures, cards, and sentence starters to help you.

You're now ready to begin the activity and discover **what the numbers tell us** about staying safe in construction.

Comparison Table.

Icon	Statistic	2014/15	2024/25	Up Down
	Fatal Injuries			
	Non-Fatal Injuries			
	Work related Ill Health			
	Falls From Height			
	New cases of Ill Health			
	Musculoskeletal Disorders			
	Lost Working Days			
	Enforcement Notices			
	Prosecutions			

Over time, things in construction have changed. We use safer tools, better equipment, and follow more rules to keep everyone safe. The numbers from ten years ago and today show how work and safety have improved.

Now think carefully before you answer the question below.

Q: What has changed over the decade?



Health and safety only improves when everyone on site works together. Small actions, like wearing the right PPE, reporting hazards, and keeping the site tidy, can make a big difference. Before you answer the question below, think about the simple steps that help keep workers safe every day.

Q: What steps should we take to improve health & Safety?



Thank You.

We would like to take this opportunity to thank you for using this learning resource, we hope you found it useful.

If you have any questions regarding this or any of our learning resources, please contact us on:



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James Rix



**City&
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