



# The smarter way to manage tower inspections

#TowerSure

# Introduction

## **Richard Fairfield**

Deputy Chair of Council, **PASMA**

PASMA instructor

Director, **E.T. Hire**





# Welcome

- Put your **questions** in the Q&A box





# Welcome

- Put your **questions** in the Q&A box
- We'll share a **recording** with you afterwards







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- Put your **questions** in the Q&A box
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- We'll also send you a **CPD certificate**





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- Put your **questions** in the Q&A box
- We'll share a **recording** with you afterwards
- We'll also send you a **CPD certificate**
- Post on social media using **#TowerSure**



# When, why and who?

## Chris Smith

Head of Audit Service and Professional Standards, **PASMA**







# Why inspect towers?

*A tower is only safe to use if it's been assembled **correctly**.*







# Why inspect towers?

*A tower is only safe to use if it's been assembled **correctly**.*

*The only way to be **sure** it's assembled correctly is to follow the instruction manual when you build it, **and then to inspect it**.*







# Why inspect towers?



*Photo credit: HSE*

“When an employee stood on the cantilever section to fit toe boards the top section of the scaffold and cantilever section **collapsed.**”

– **Health & Safety Executive, 2020**





# Why inspect towers?



*Photo credit: HSE*

“Mr Harding caught his jacket sleeve on the tower, lost balance and **fell over a single guard rail** and down to ground level.

He was taken to hospital but **died three months later** due to medical complications.”

– **Health & Safety Executive, 2022**



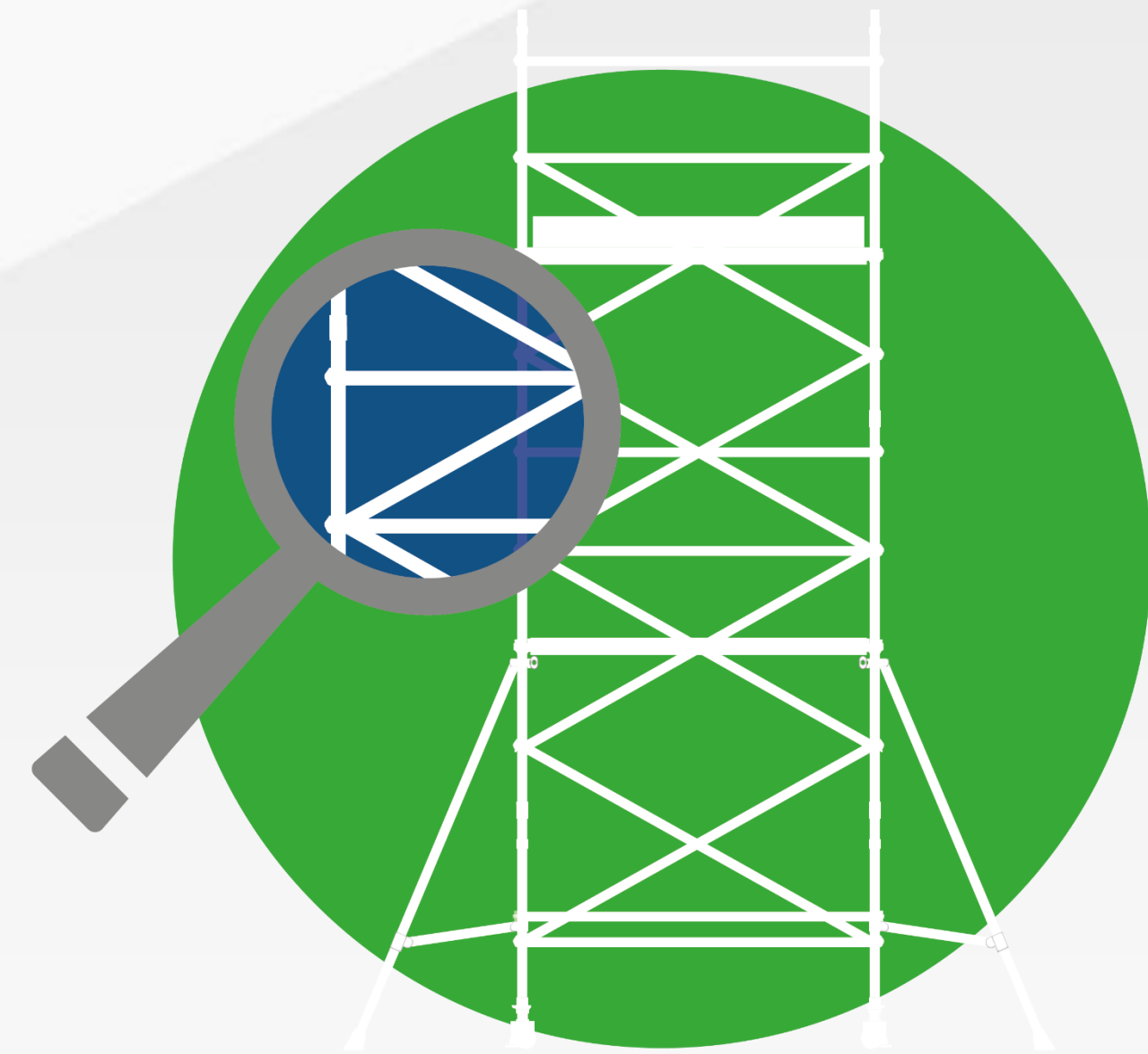


*Photo taken by  
PASMA in  
Glasgow, 2022*





# When to inspect towers



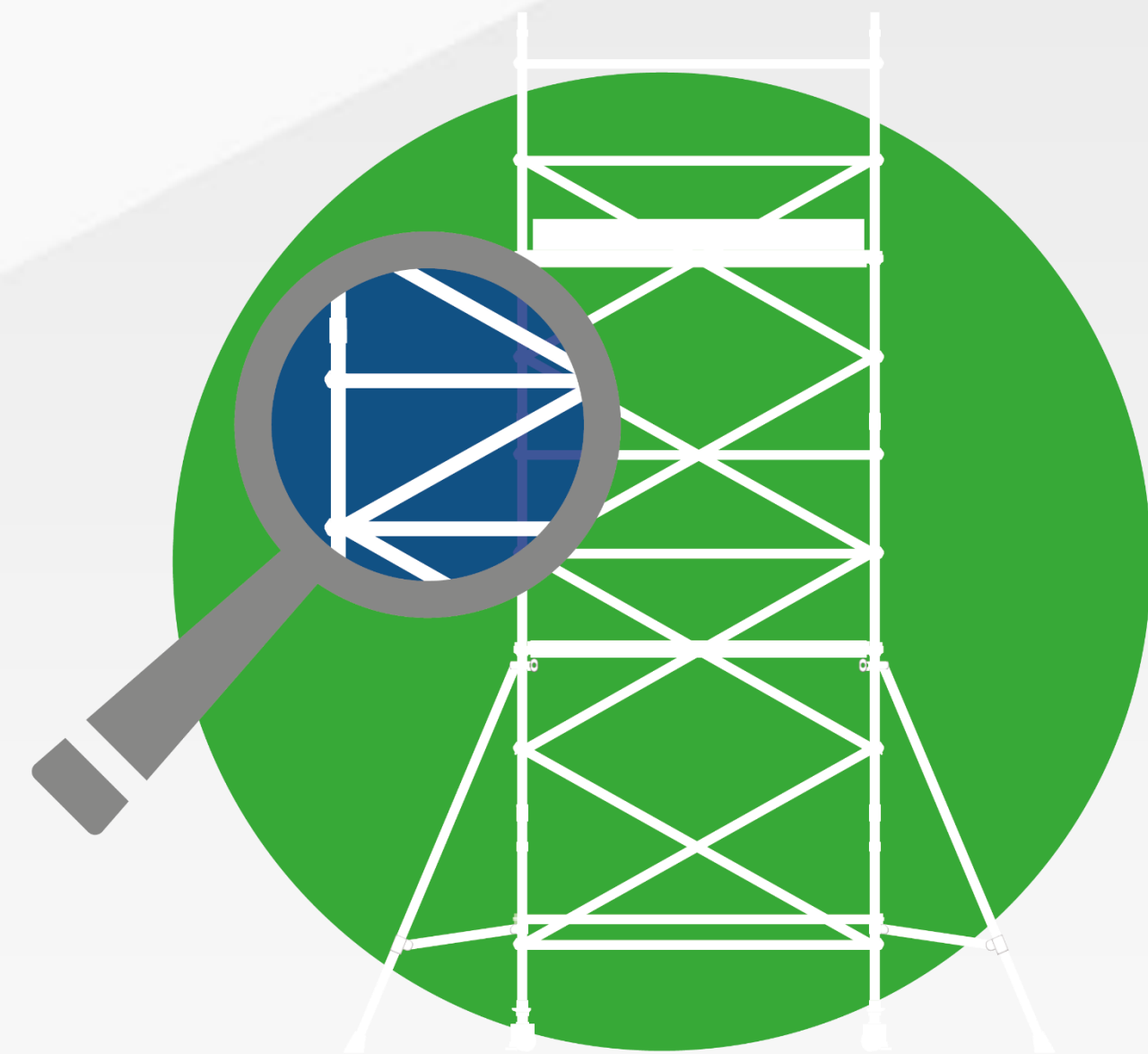
After assembly





# When to inspect towers

***As often as is necessary to ensure safety***



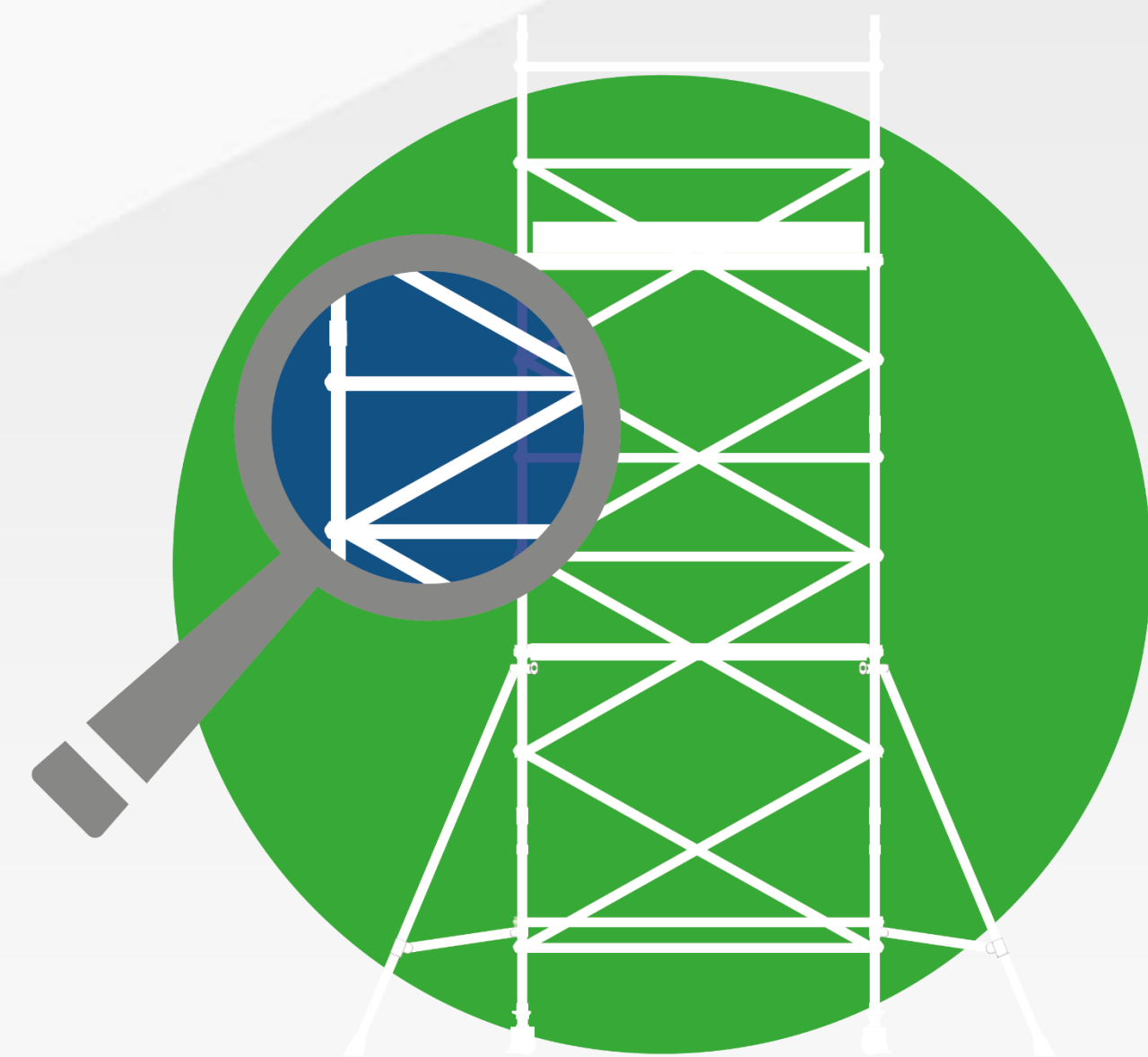
**After assembly**



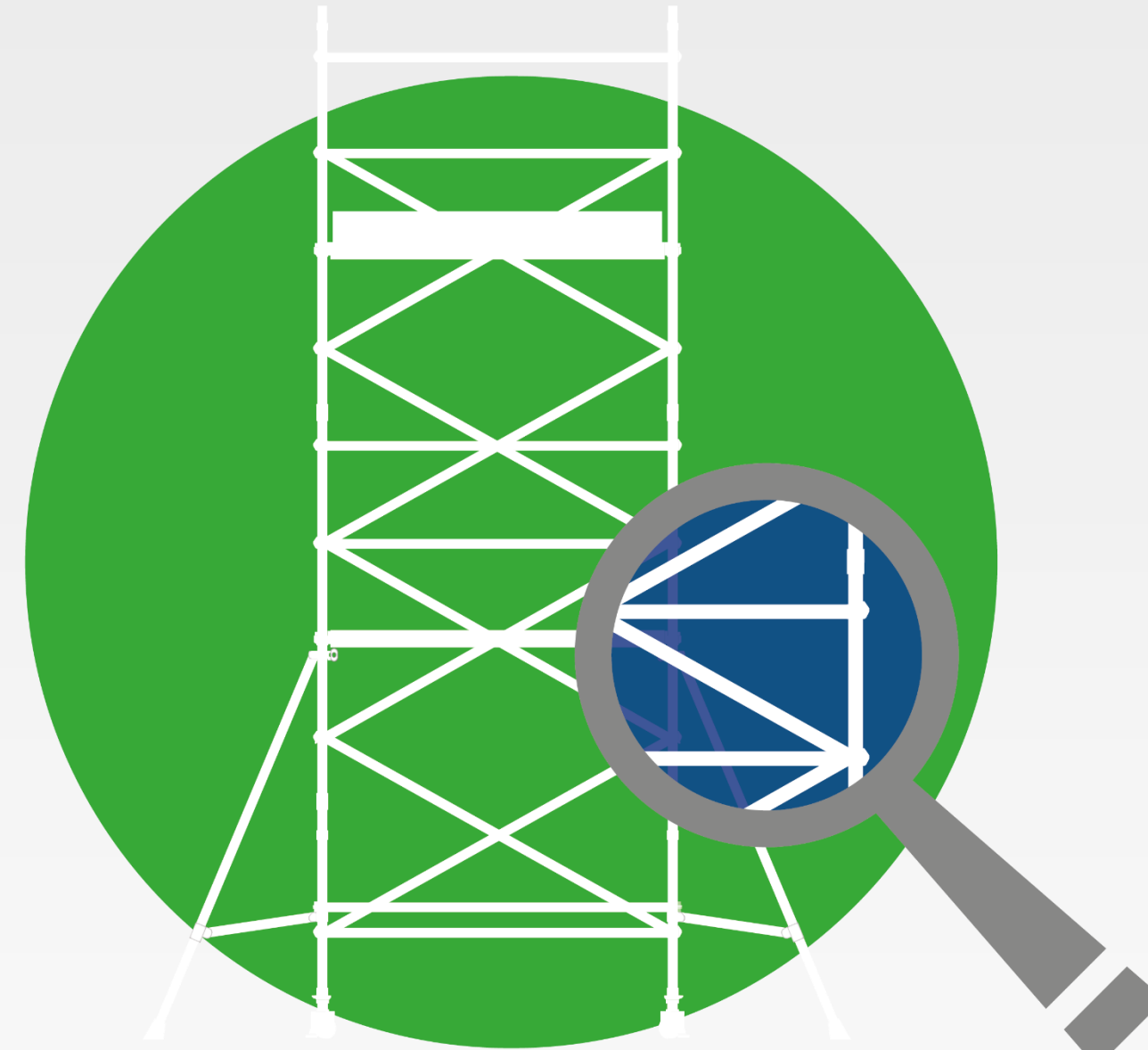


# When to inspect towers

***As often as is necessary to ensure safety***



**After assembly**



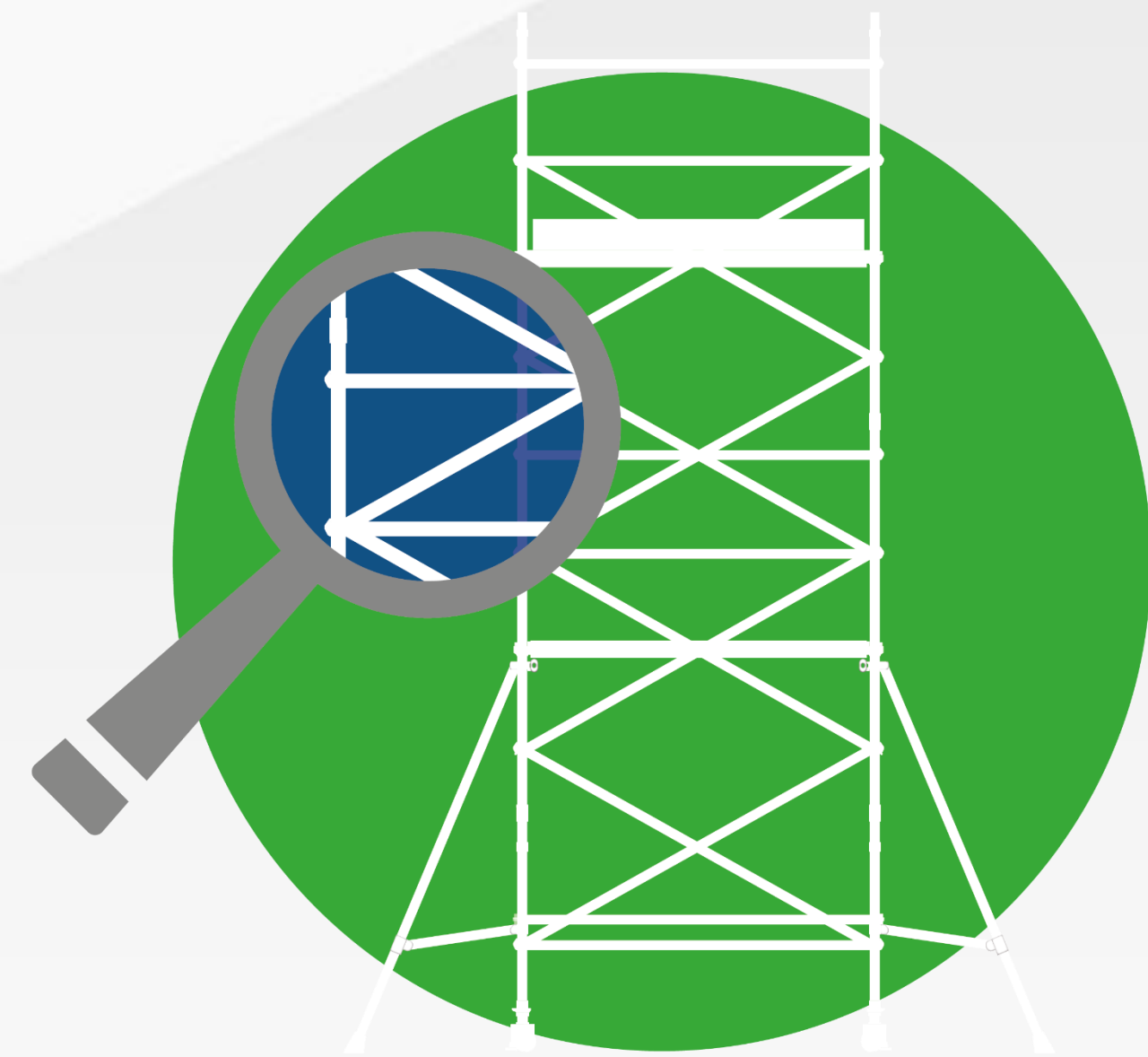
**After alteration**





# When to inspect towers

***As often as is necessary to ensure safety***



**After assembly**



**After alteration**



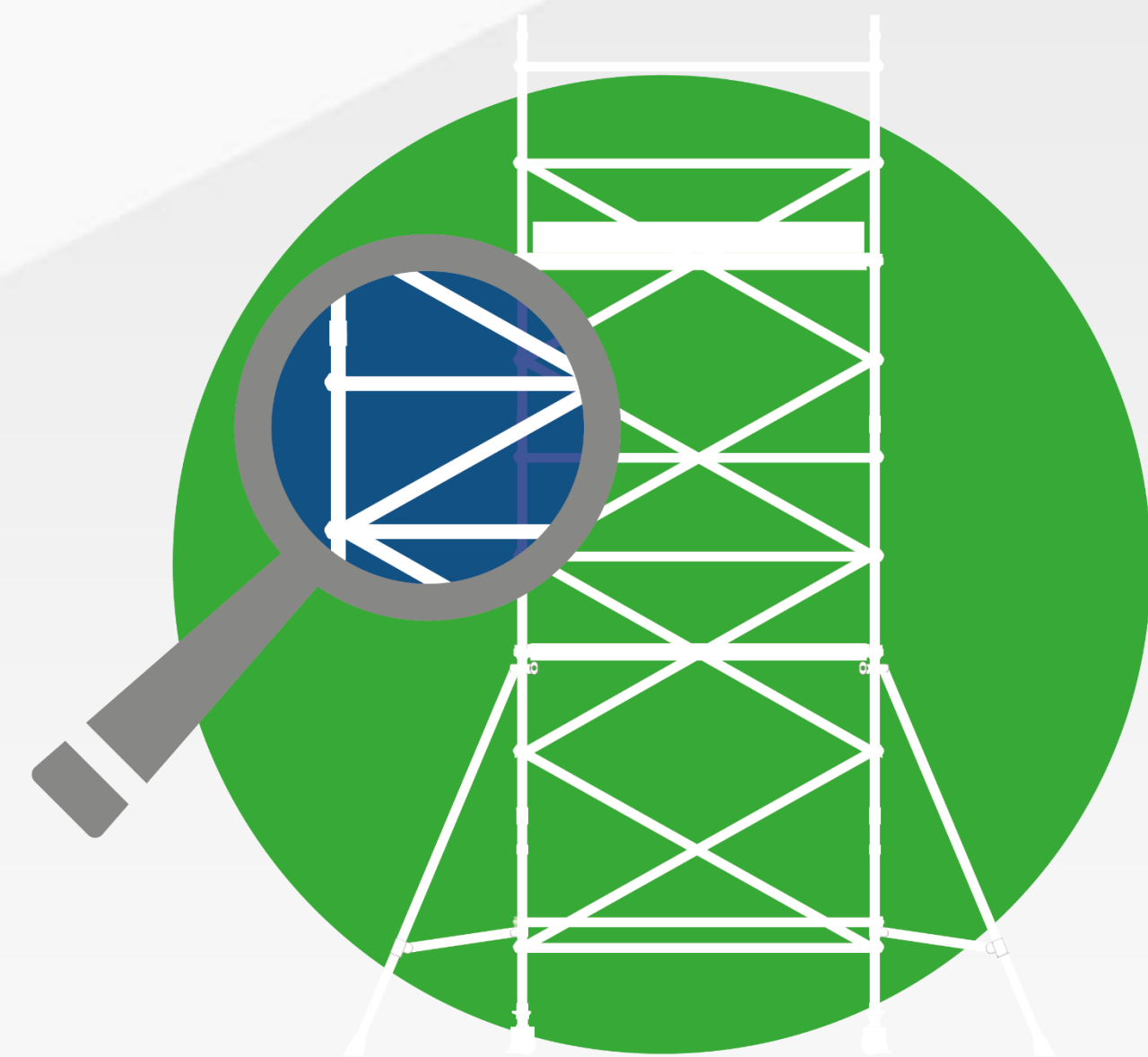
**After any event that  
could affect safety**





# When to inspect towers

***As often as is necessary to ensure safety***



**After assembly**



**After alteration**



**After any event that  
could affect safety**



**At least every  
7 days**





# Who can inspect towers?

The person who does the inspection needs to know **what a good tower looks like.**



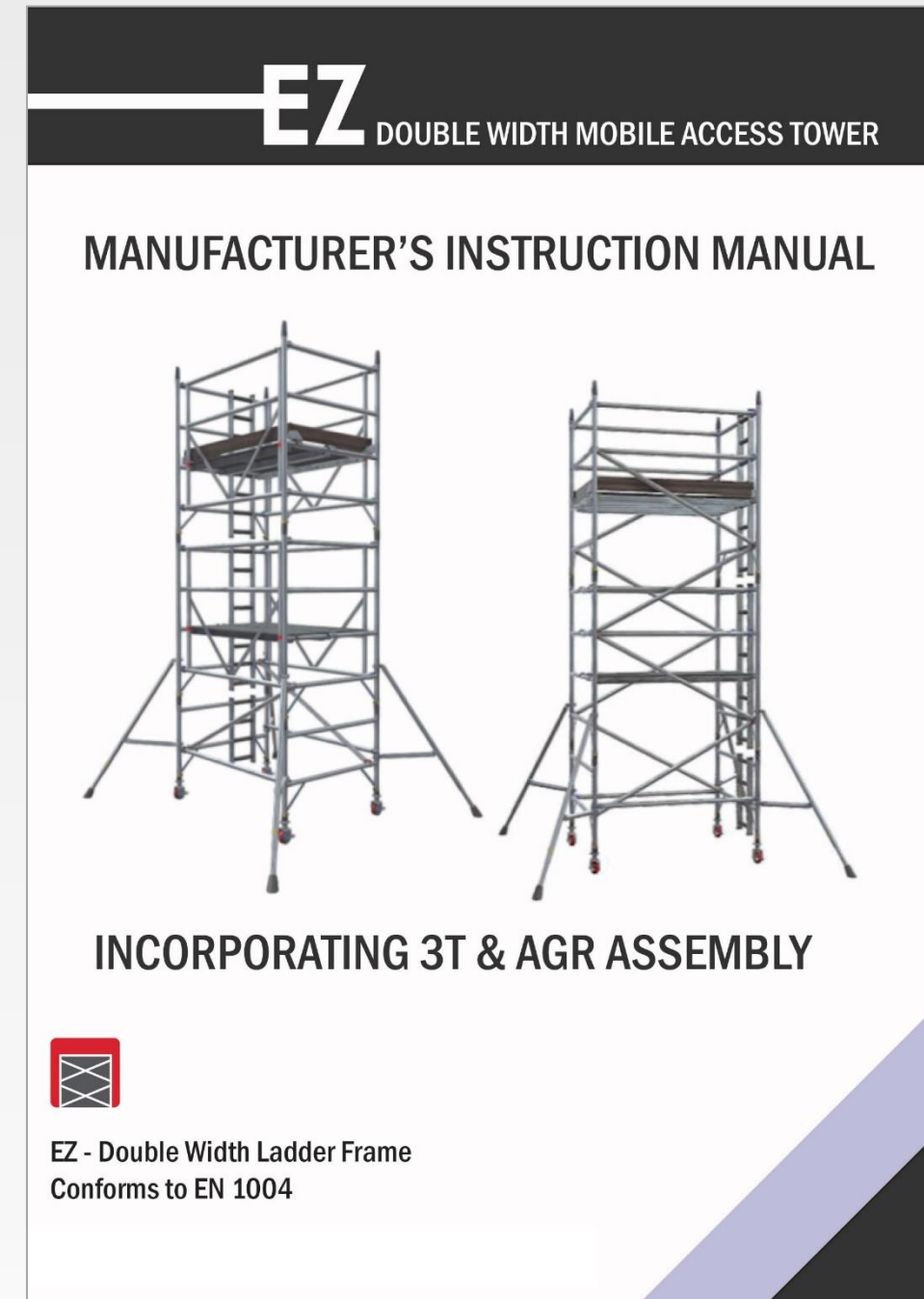




# Who can inspect towers?



Training







# Who can inspect towers?

***Operatives who have done the relevant PASMA user course***

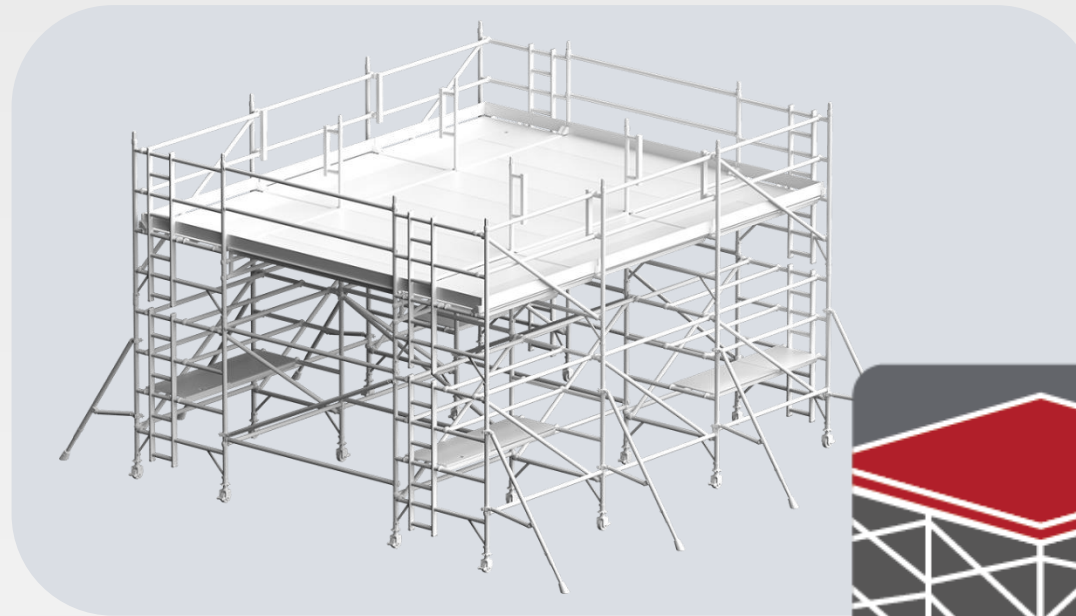






# Who can inspect towers?

***Operatives who have done the relevant PASMA user course***

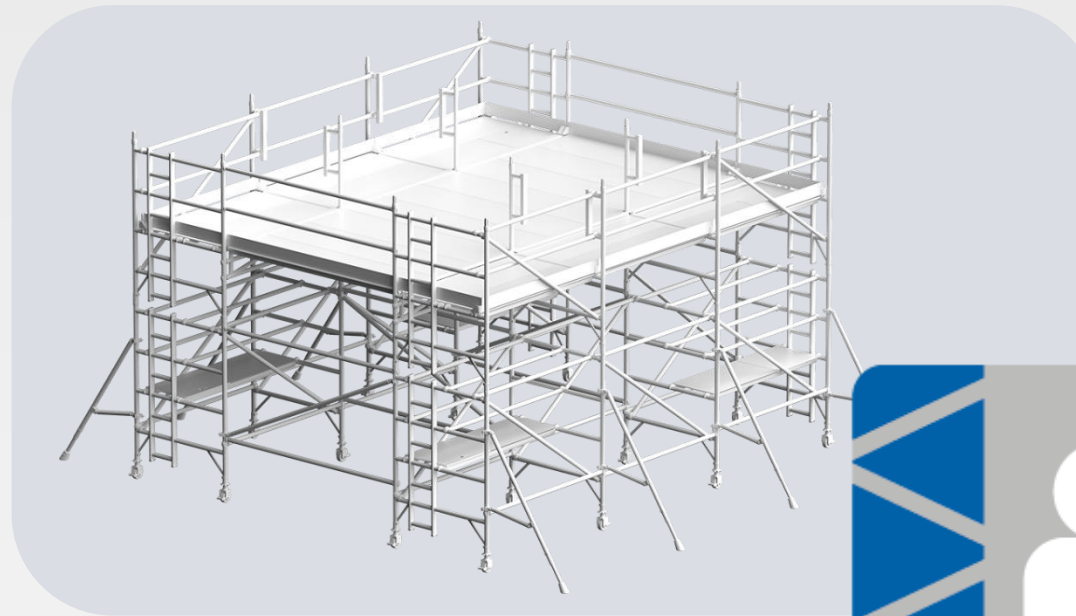






# Who can inspect towers?

***Managers who have done a PASMA Towers for Managers course***





# How to inspect a tower

**Craig Gorton**  
PASMA Instructor







# How to inspect a tower

You can't inspect a tower properly without the ***instruction manual.***











# Inspection checklist

1

Are the ground conditions suitable, all castor brakes locked and wheels in contact with the ground?







# Inspection checklist

2

**Is the tower level and upright and are the adjustable legs set correctly but not used to gain extra height?**







# Inspection checklist

3

Is the tower stabilised as per the instruction manual, using the correct stabilisers or outriggers, or the correct type and position of ballast, or is the tower tied in using the right type of ties in the right position?







# Inspection checklist

4

**Are the horizontal and diagonal braces positioned and secure as per the instruction manual?**







# Inspection checklist

5

Are all frames of the correct size and type, in the correct position with locking devices secured?







# Inspection checklist

6

Are all platforms positioned correctly with trapdoor openings over the built in access and all windlocks engaged?







# Inspection checklist

7

Do all platforms have double guardrails on all sides, fitted as per the instruction manual?







# Inspection checklist

8

Are toeboards correctly fitted as per the instruction manual?







# Inspection checklist

9

Is the tower the correct height for the task?







# Spotted a problem?







# Spotted a problem?

***Can you easily and safely correct the problem?***

Correct the problem, then re-start your inspection.





# Spotted a problem?

## ***Can you correct the problem, but not straight away?***

1. Report the issue to a manager
2. Display a clear warning sign at the access point
3. Physically restrict access





# Spotted a problem?

## ***What if the tower can't be made safe?***

Find a safe way to dismantle it.





# Inspection checklist for mobile access towers

1

Are the ground conditions suitable, all castor brakes locked and wheels in contact with the ground?

2

Is the tower level and upright and are the adjustable legs set correctly but not used to gain extra height?

3

Is the tower stabilised as per the instruction manual, using the correct stabilisers or outriggers, or the correct type and position of ballast, or is the tower tied in using the right type of ties in the right position?

4

Are the horizontal and diagonal braces positioned and secure as per the instruction manual?

5

Are all frames of the correct size and type, in the correct position with locking devices secured?

6

Are all platforms positioned correctly with trapdoor openings over the built in access and all windlocks engaged?

7

Do all platforms have double guardrails on all sides, fitted as per the instruction manual?

8

Are toeboards correctly fitted as per the instruction manual?

9

Is the tower the correct height for the task?

# How to record an inspection

**Don Aers**

Technical Director, **PASMA**



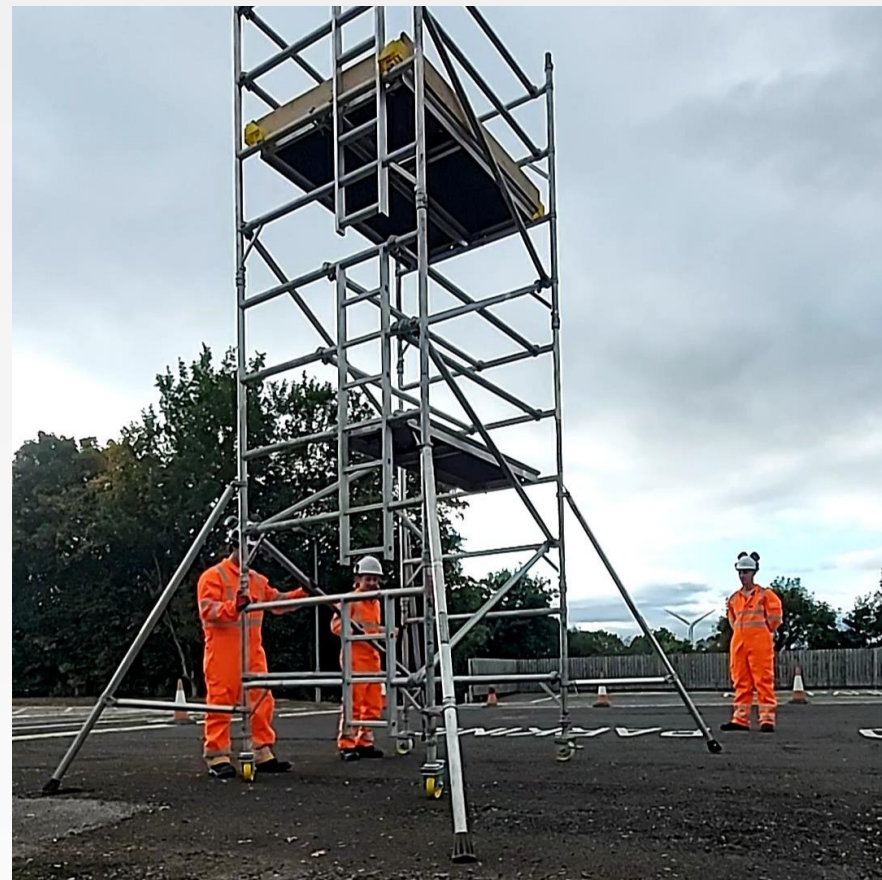




# The inspection process

1

**INSPECT**

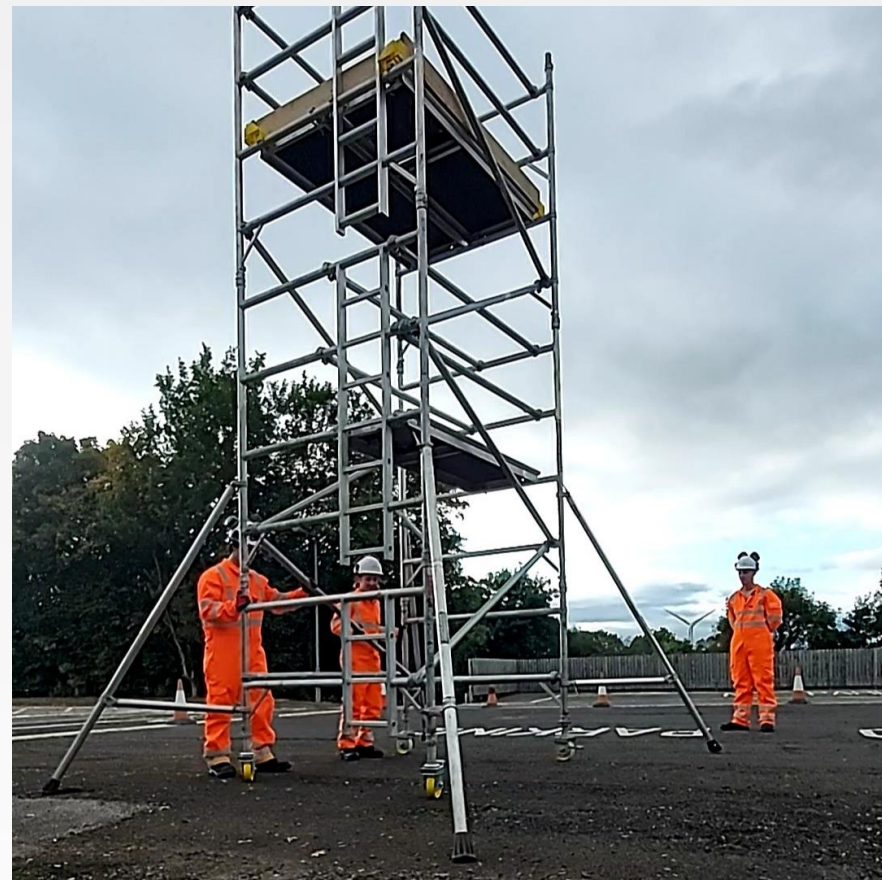




# The inspection process

1

**INSPECT**



2

**RECORD**



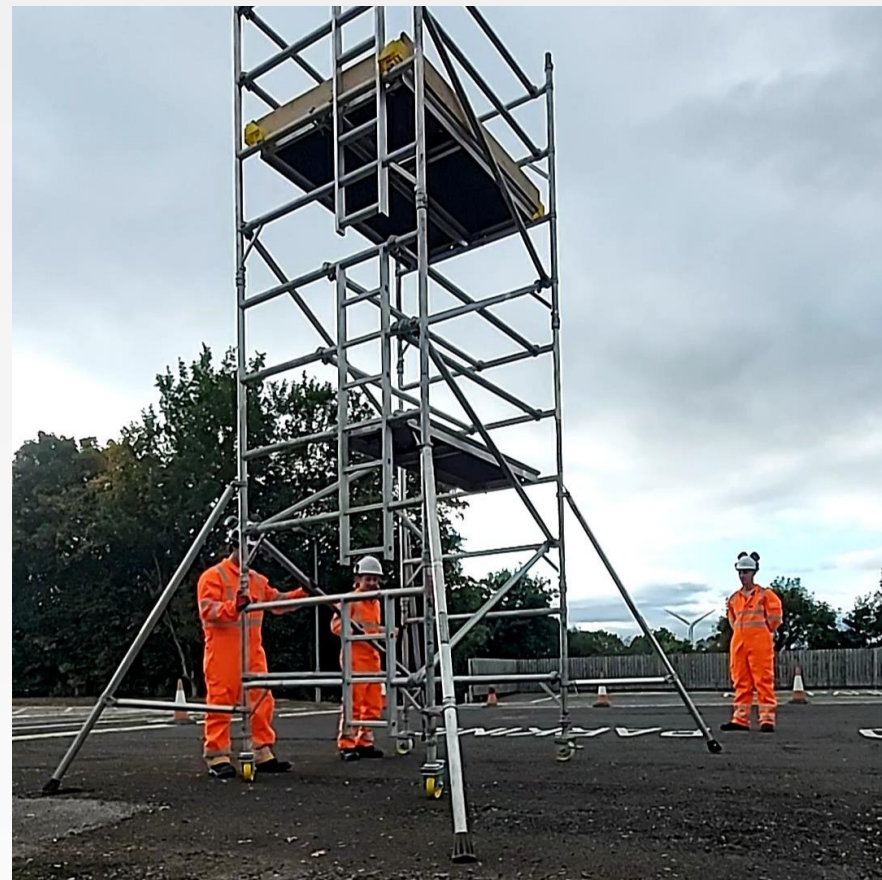




# The inspection process

1

**INSPECT**



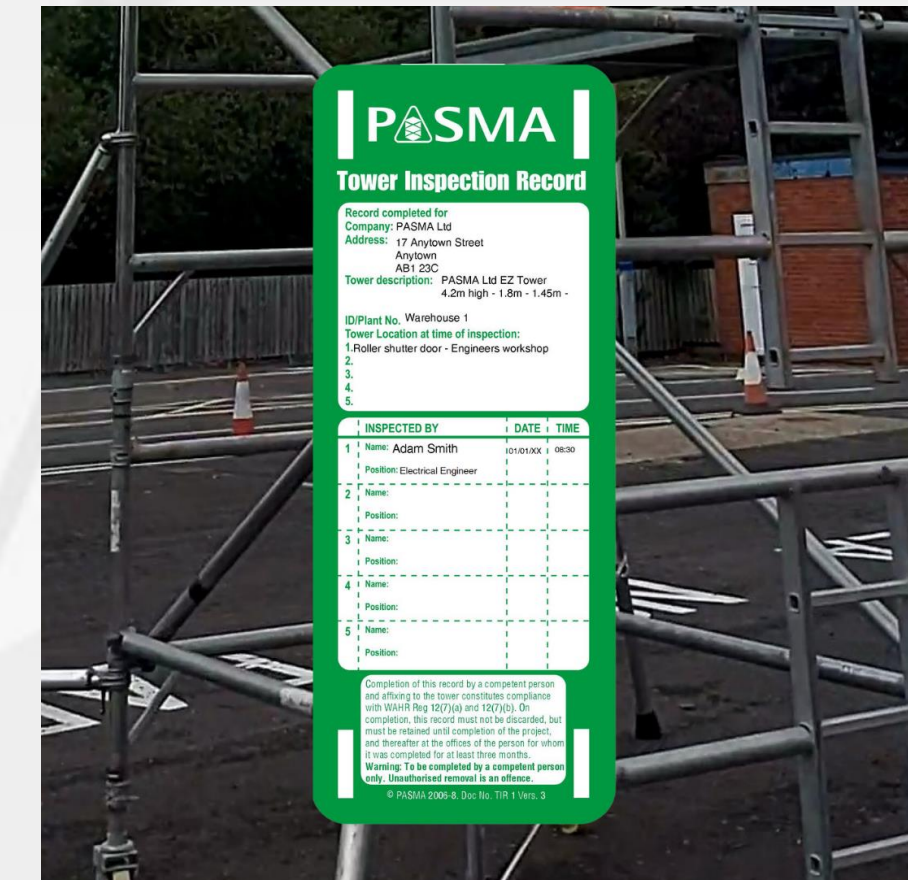
2

**RECORD**



3

**REPORT**







# What to record







# What to record

1. Name and address of person for whom inspection was carried out



# What to record

1. Name and address of person for whom inspection was carried out
2. Location of work equipment





# What to record

1. Name and address of person for whom inspection was carried out
2. Location of work equipment
3. Description of work equipment



# What to record

1. Name and address of person for whom inspection was carried out
2. Location of work equipment
3. Description of work equipment
4. Date and time of inspection





# What to record

1. Name and address of person for whom inspection was carried out
2. Location of work equipment
3. Description of work equipment
4. Date and time of inspection
5. Details of any matter identified that could give rise to a risk to the health or safety of any person



# What to record

1. Name and address of person for whom inspection was carried out
2. Location of work equipment
3. Description of work equipment
4. Date and time of inspection
5. Details of any matter identified that could give rise to a risk to the health or safety of any person
6. Details of any action taken as a result





# What to record

1. Name and address of person for whom inspection was carried out
2. Location of work equipment
3. Description of work equipment
4. Date and time of inspection
5. Details of any matter identified that could give rise to a risk to the health or safety of any person
6. Details of any action taken as a result
7. Details of any further action necessary



# What to record

1. Name and address of person for whom inspection was carried out
2. Location of work equipment
3. Description of work equipment
4. Date and time of inspection
5. Details of any matter identified that could give rise to a risk to the health or safety of any person
6. Details of any action taken as a result
7. Details of any further action necessary
8. Name and position of person making report





# Store your report



Give your inspection report to the person for whom it was completed.





# Store your report

**Keep on site**



**Until work is complete**





# Store your report

**Keep on site**



**Until work is complete**

**Store securely**



**3 months**





# Introducing TowerSure

**Jason Carlton**  
Head of Strategic Engagement, **PASMA**







# What is TowerSure?



- Guides operatives through inspections – making them more **consistent and thorough**
- Has **competence checks** built in
- Electronic inspection records are **stored centrally and shared instantly**
- See all towers on all sites and projects – **without leaving your office**



# What is TowerSure?



- **FREE** for everyone until September
- **FREE** forever for small business and individuals



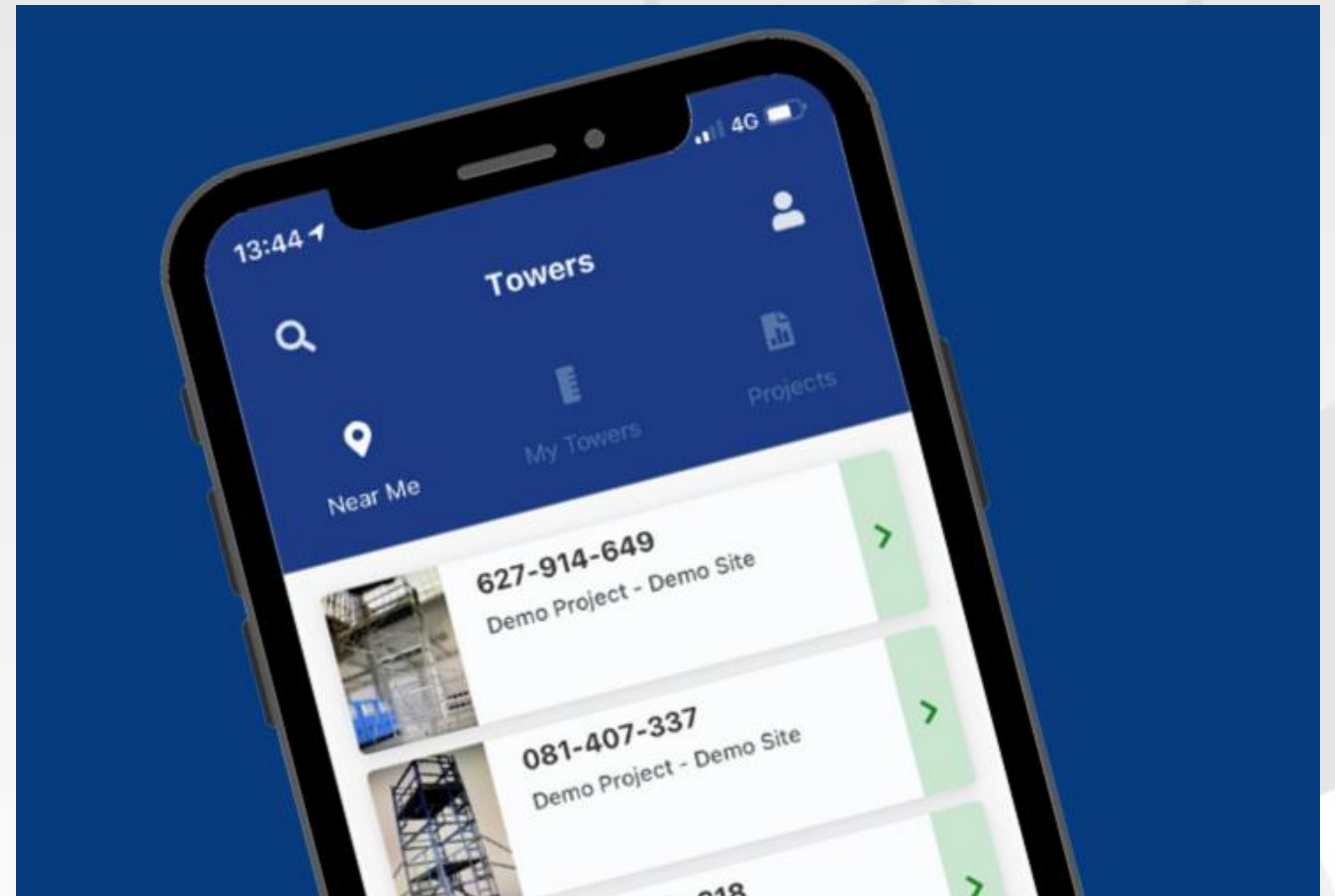


What will TowerSure  
help you **achieve**?



# The mobile app

A simple, easy to use **mobile app** for tower operatives







# Consistent and thorough inspections

Operatives follow **step-by-step PASMA-approved inspection checklists** – no more memory tests

08:22

New Tower

Did you assemble the tower?

Assembler's First Name  
Demo

Assembler's Second Name  
User

Assembler's PASMA Certificate Number  
944018

Platform Height  
4m


Indoor Outdoor

Continue to Inspection

08:23

Checklist

Question 8 of 9



Are toeboards correctly fitted as per the instruction manual?

X ✓

08:24

Inspection Summary

Assembled By  
Demo User


Assembler's PASMA Certificate Number  
944018

Tower Type  
Mobile Access Tower

Platform Height  
4m

Environment  
Indoor

Images (must submit at least one)

+ 

Inspection Comments

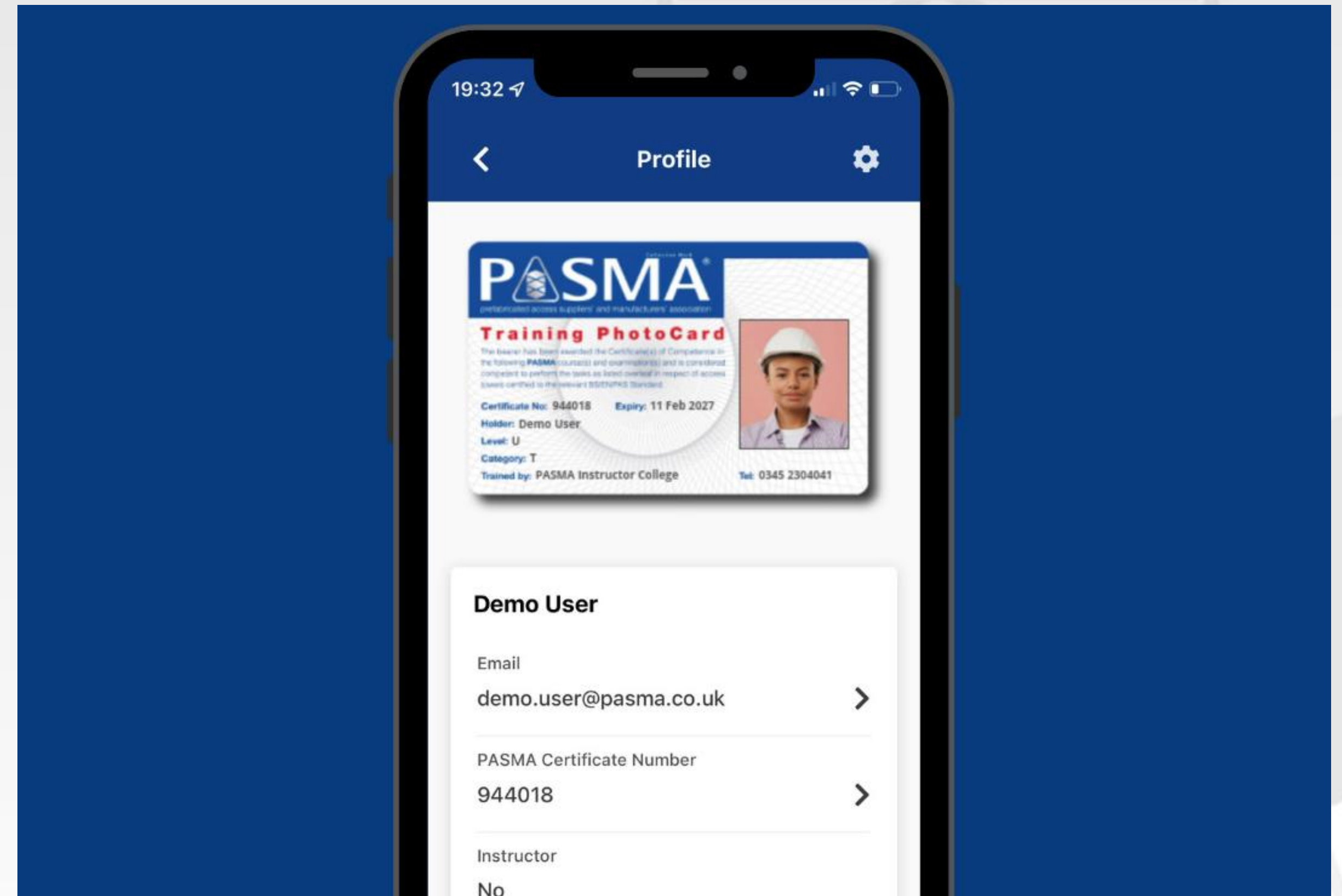
Complete



# Built-in competence checks

Get a warning if you build a tower you aren't **qualified** on

Keep your **PASMA card** on your phone, to easily demonstrate your level of training

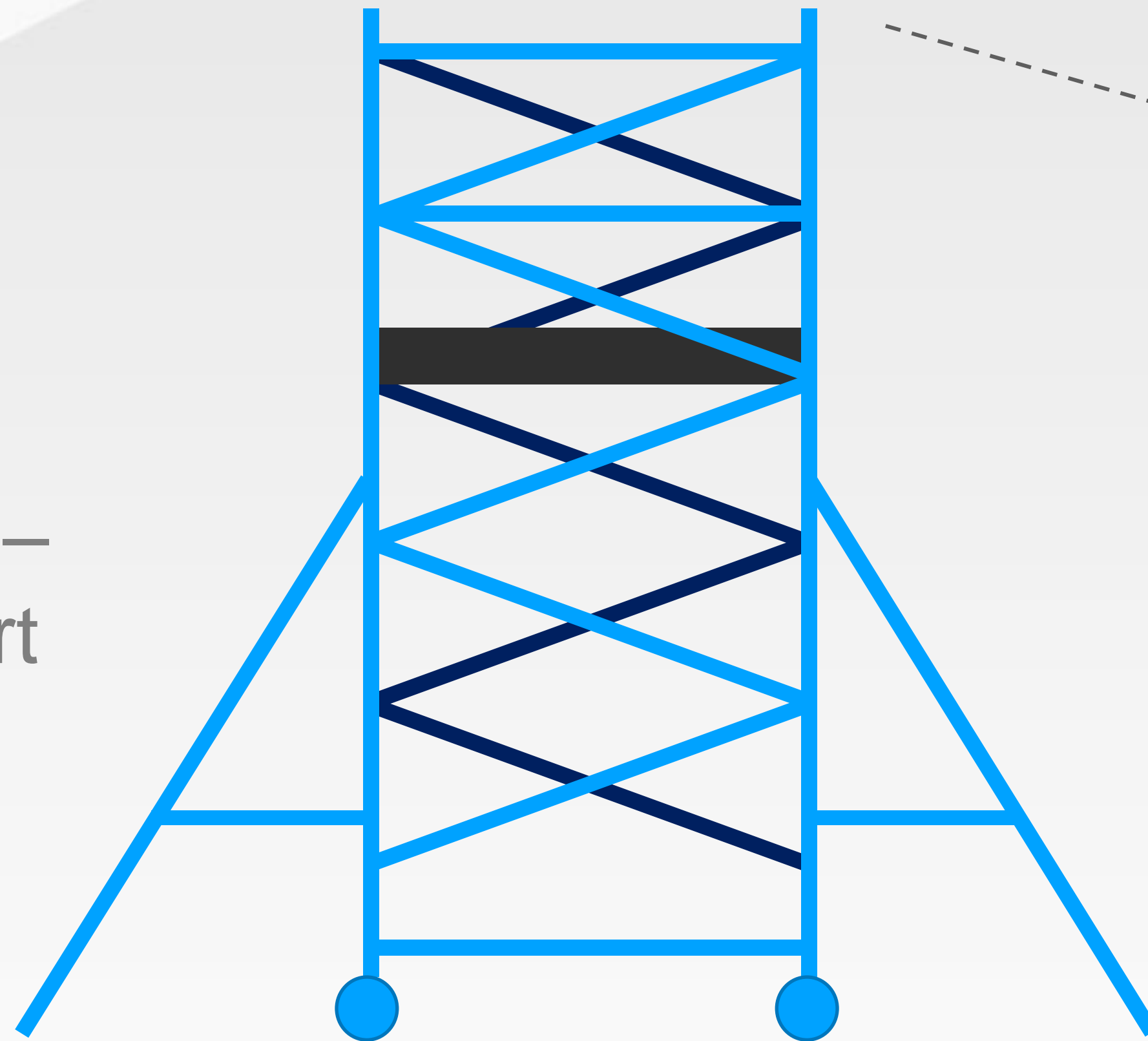




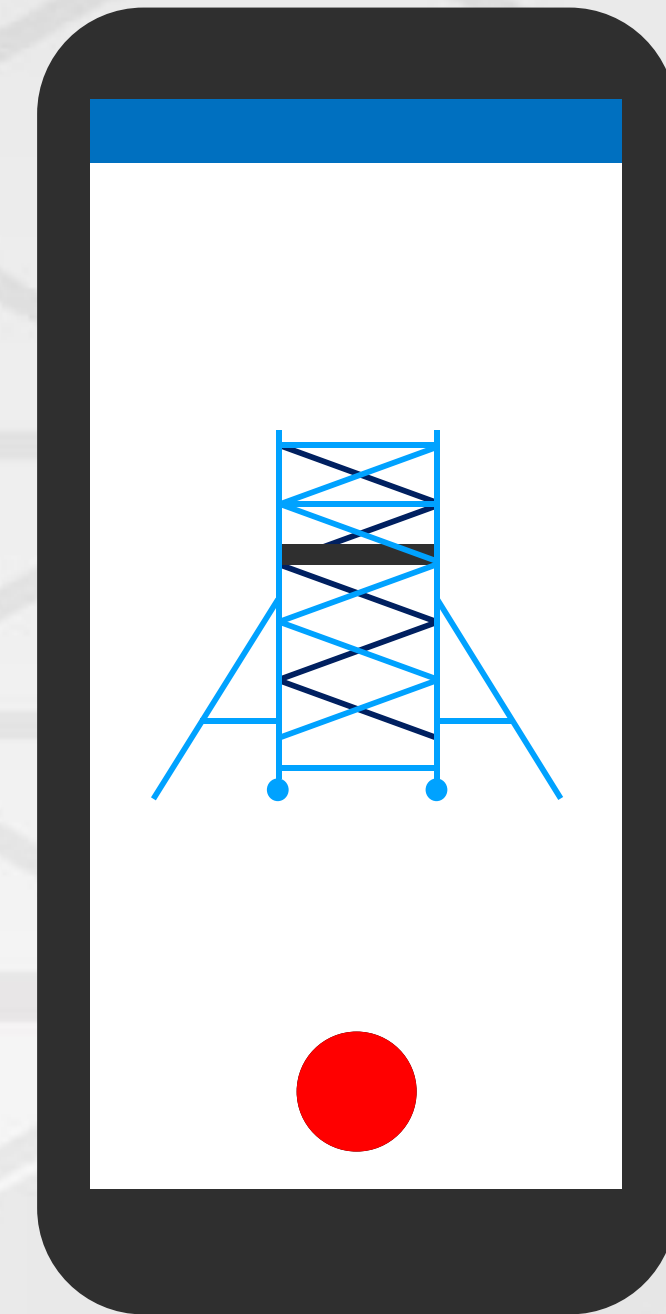


# Inspection records done right

Create tower inspection records **electronically** – save time, effort and the environment!



Record when built





# Everyone can check if a tower is safe

Everyone on a project can **verify the status** of any tower on that project – whether it's a main contractor, a client, or a visitor.

If it's green, it's safe to use.

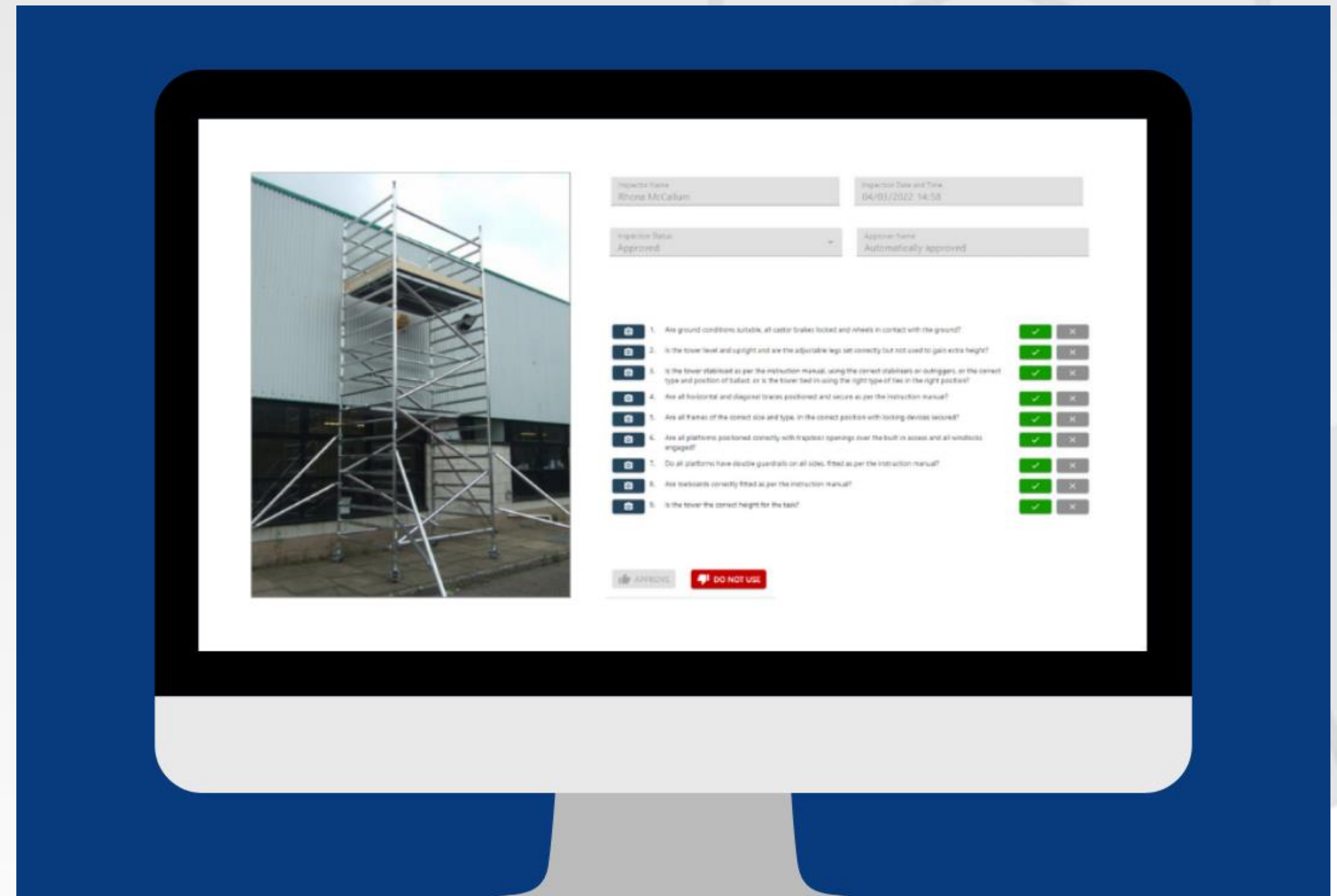






# The management console

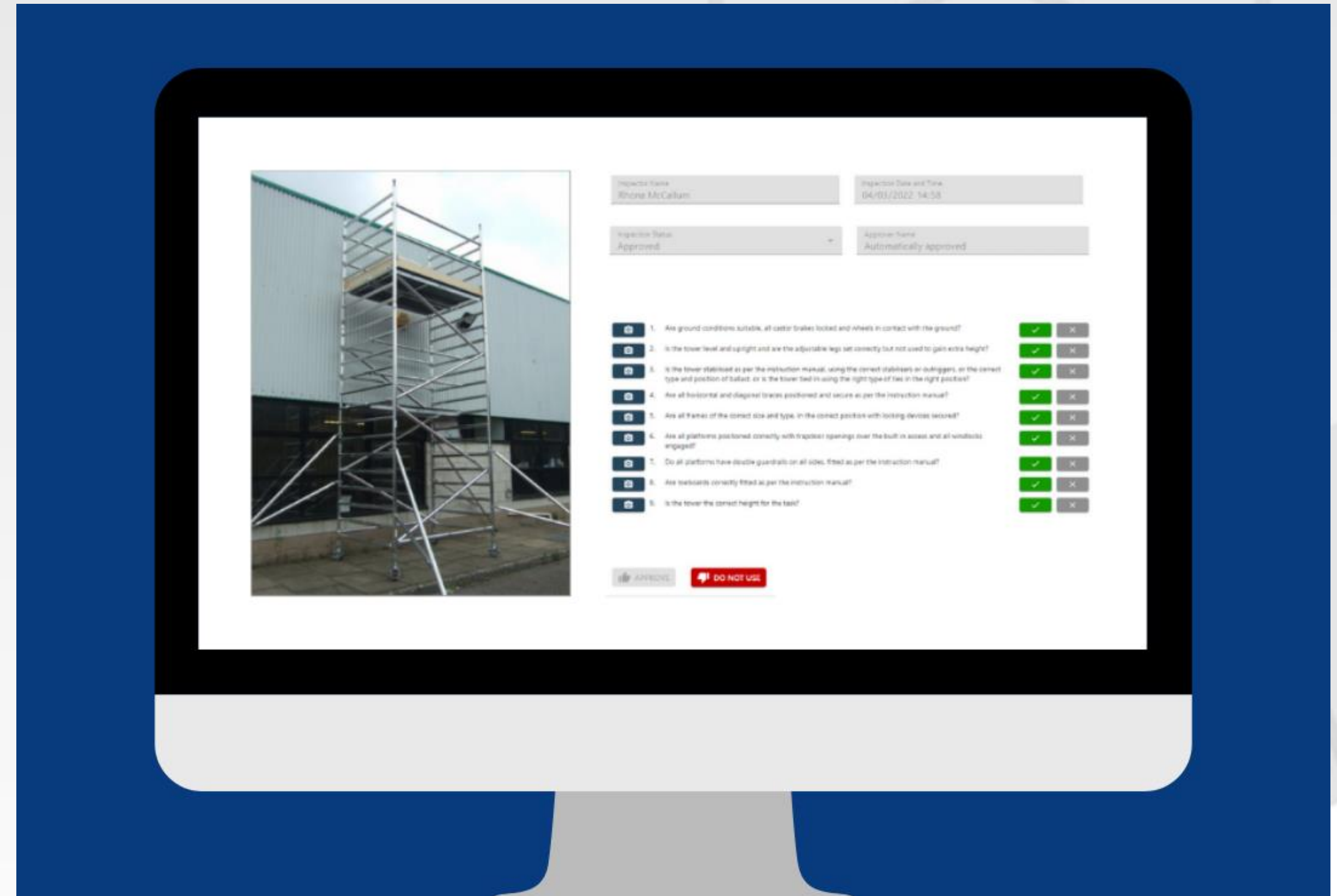
A powerful web-based **management console** for managers





# Complete visibility

Visibility of **all towers** on all sites and all projects – for your staff, main contractors, sub-contractors and clients







# Spot check towers remotely

**Spot check**  
towers remotely  
– without leaving  
your office


**TOWER DETAILS**    **INSPECTION DETAIL**










Inspector Name  
Maarten de Vries

Inspection Date and Time  
13-Aug-2021 02:18 PM

Inspection Comments

Inspection Images



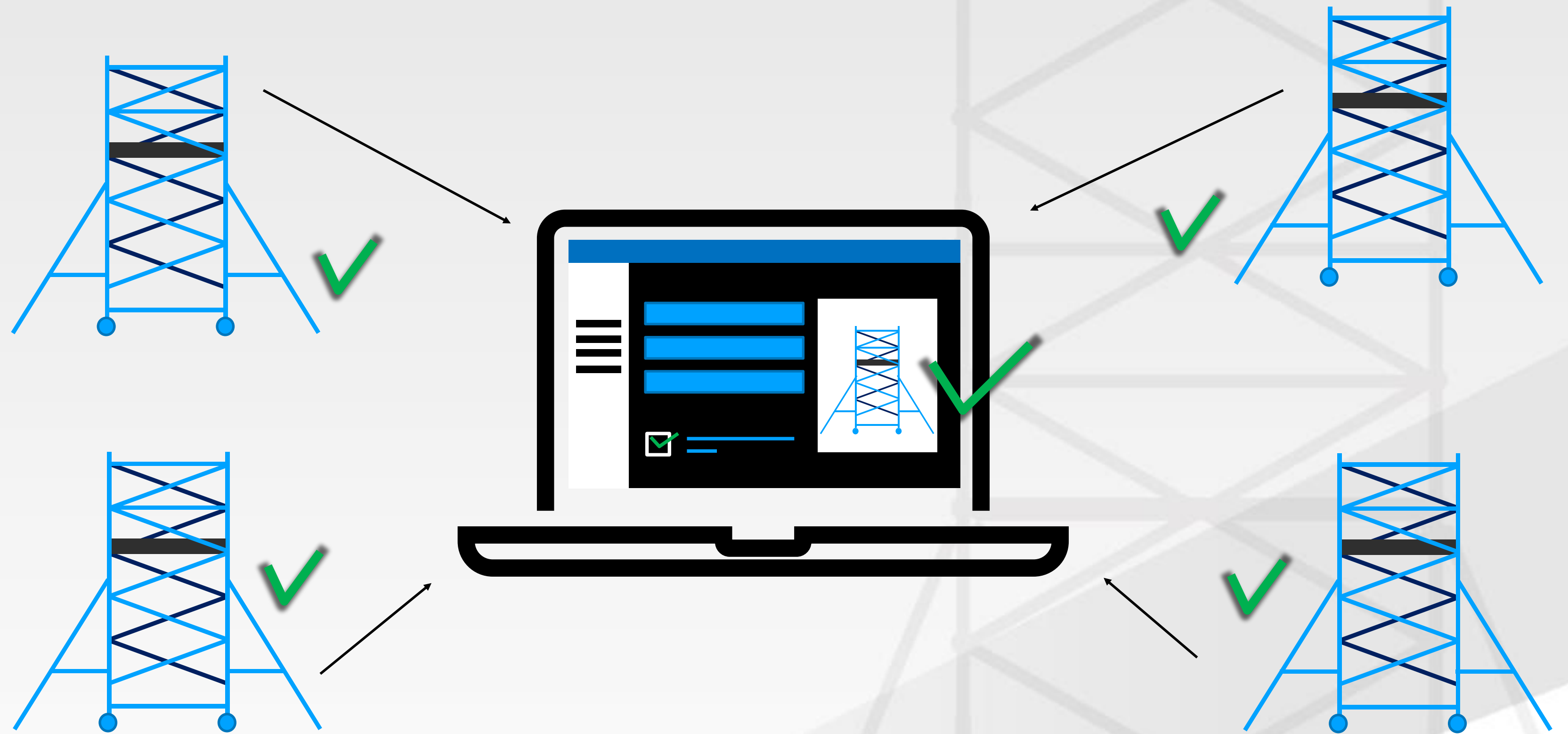
	1. Is BS 1139-6 information displayed prominently at the base of the tower?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2. Are ground conditions suitable, all castor brakes locked and all wheels in contact with the ground or base plates fitted and all in contact with the ground?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	3. Is the tower level and upright, and are the adjustable legs set correctly but not used to gain extra height?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	4. Is the tower stabilised as per the instruction manual, using the correct stabilisers or outriggers, or the correct type and position of ballast, or is the tower tied in using the right type of ties in the right position?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	5. Are all horizontal and diagonal braces positioned and secure as per the instruction manual?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	6. Are all frames of the correct size and type, in the correct position with locking devices secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	7. Are cantilever sections installed correctly, with the right type and size of couplers, and as per the instruction manual?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	8. Are all platforms and infill panels positioned correctly, with trapdoor openings over the built in access, and all windlocks engaged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	9. Do all platforms have double guardrails on all sides, fit	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Approval Comments \*



# Choose to centralise inspections

Choose to **centralise inspections** – even outsource them!







# Reliable record retrieval

Store and search  
inspection  
records  
**electronically**

**PASMA**  
prefabricated access suppliers' and manufacturers' association

## Tower ID 845-818-488

**Project** Demonstration  
**Inspection Record** 0002-0016  
**Tower Builder** Rhona McCallum  
**Tower Type** Mobile Access Tower  
**Site** Demo  
**Tower Owner** TowerSure safety  
**Platform Height** 4m  
**Current Status** ● Built - Approved

**Location**  
Lat: 55.88164 Lng: -4.29825

**Inspections**

Inspection time is shown in the timezone of the device when the inspection was performed

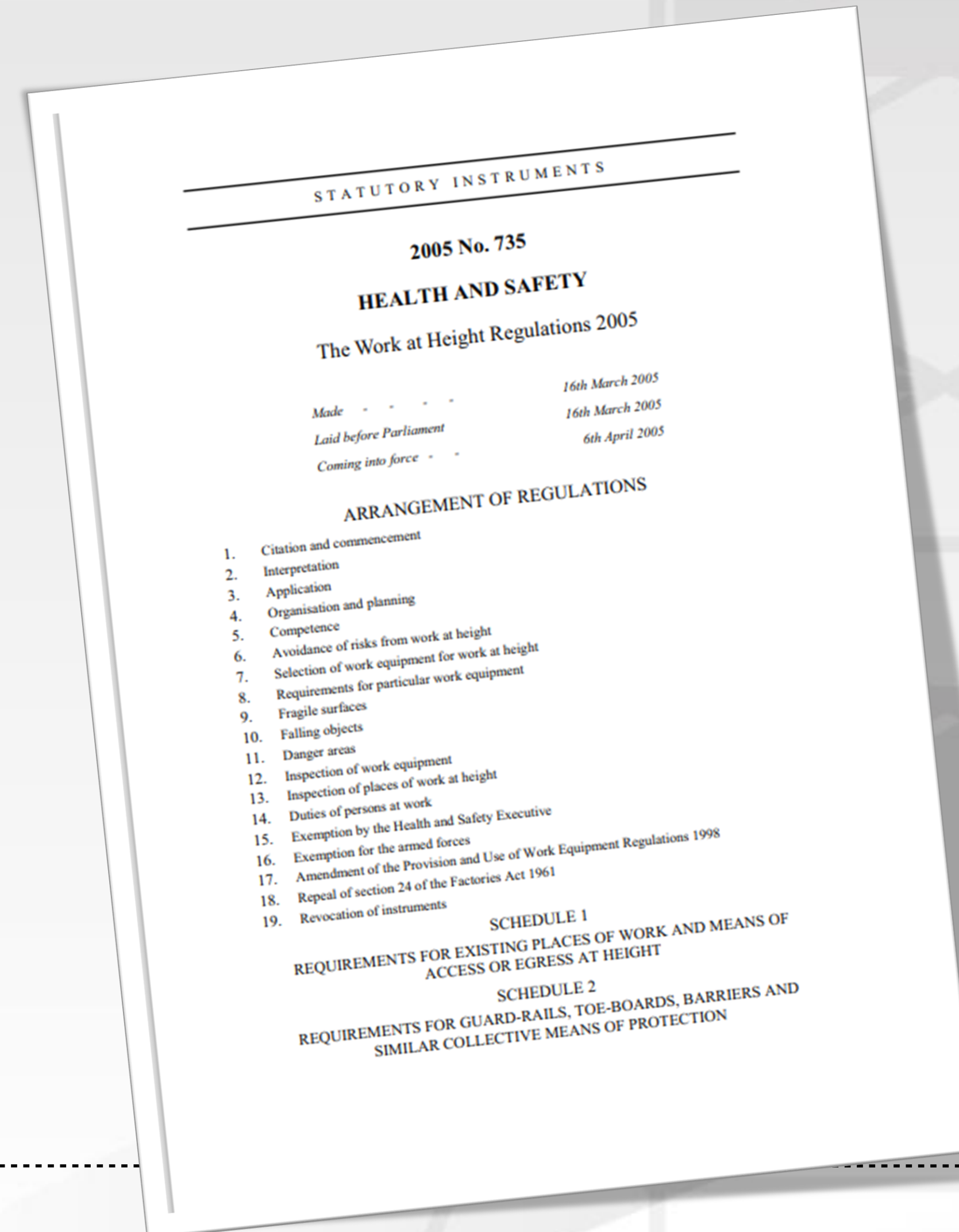
Date	Inspector	Status	Expires	Images
2022-03-02 13:33 GMT+00:00	Rhona McCallum	● Approved	2022-03-09 13:33 GMT+00:00	

**Inspector Comments**



# Comply with Work at Height Regs

Easier than ever to meet inspection responsibilities in **Work at Height Regulations**







# AT Jones Group

Thank you **AT Jones Group** for pilot testing TowerSure!











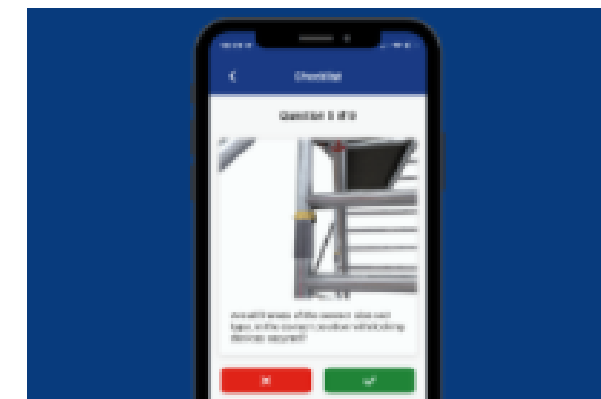
# How to get TowerSure

## TowerSure by PASMA

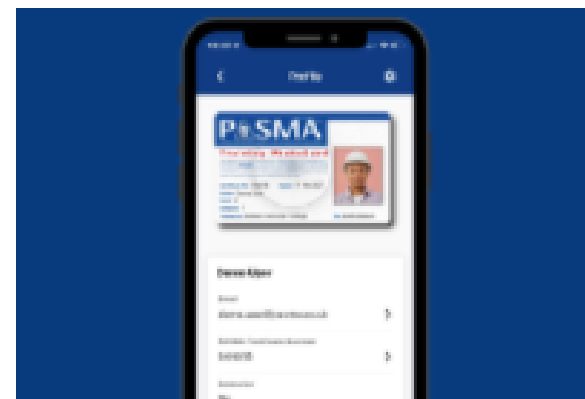
The smarter way to manage tower inspections

BETA VERSION AVAILABLE NOW

This page contains all the info you need to use TowerSure by PASMA – from getting started to accessing support when you need it. The system that's available today is a beta version, which means there's still time to share the product that will go on general release. It also means that, although TowerSure has been thoroughly tested, you might still find bugs. Please know that any insights and feedback you provide on the beta version will help to create a truly game-changing tool for tower users across the world. **Thank you for leading the way in tower safety.**



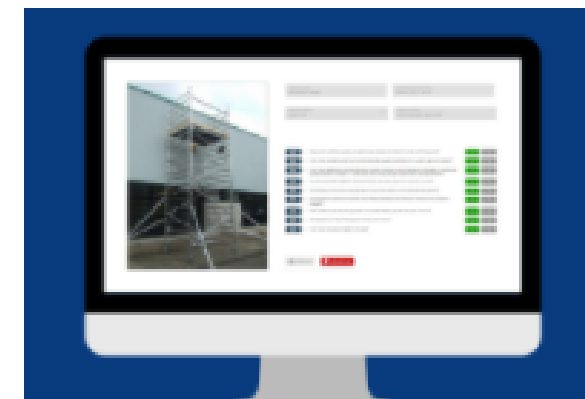
Ensure consistent, thorough tower inspections with built-in PASMA checklists



Built in PASMA competence checks



Create, store, search and share tower inspection records electronically



See photos and details of all towers on your sites and projects – without leaving your office

## Getting started

### Quick start guide

Ready to make tower inspections smarter? Follow these **7 steps** to get everyone set up:

1. **Register for a TowerSure account**
2. Create your **Organisation** (e.g. Tower Builders Ltd)
3. Create at least one **Project** (e.g. Construction Client)\*
4. For each project, create at least one **Site** (e.g. Glasgow)
5. Invite other **Safety Managers** to register
6. Invite your **Tower Operatives** to register
7. To get the most out of the system, **order a batch of TowerSure labels**

\* To get you started, we recommend choosing checklist type 'In app checklist (automatically approve)' and turn **off** the ability for app users to add sites)

VISIT

[pasma.co.uk/towersure](https://pasma.co.uk/towersure)

# Commit to tower safety

## **Peter Bennett OBE**

Managing Director, **PASMA**

Chair, **No Falls Foundation**

Chair, **Access Industry Forum**

Chair, **Test & Research Centre**

Executive Director, **Ladder Association**







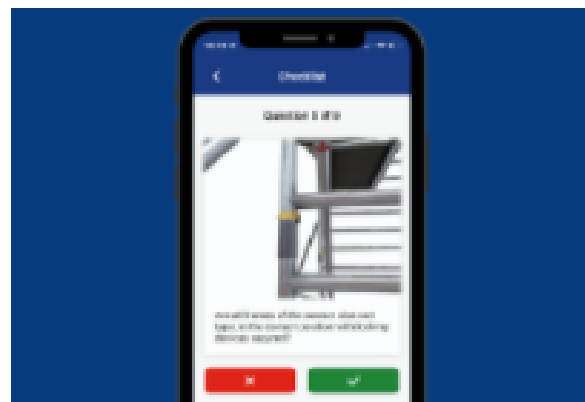
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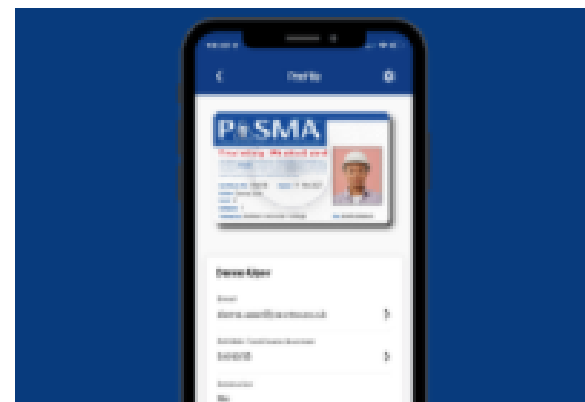
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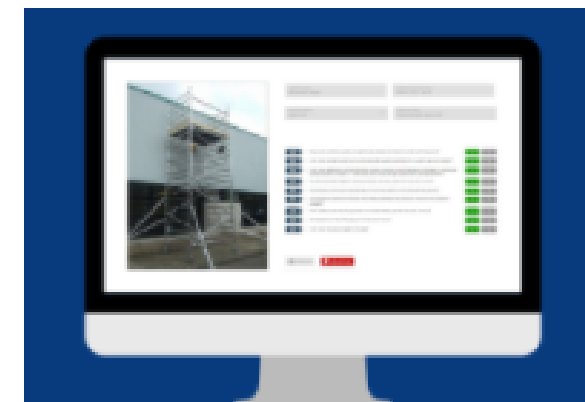
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VISIT

[pasma.co.uk/towersure](https://pasma.co.uk/towersure)



# Any questions?







# Thank you!

## TODAY

- 1. Complete our survey**
- 2. Visit [pasma.co.uk/towersure](https://pasma.co.uk/towersure)**
- 3. Share on social media #TowerSure**

## NEXT WEEK

Look out for:

- 1. Recording**
- 2. CPD certificate**

*Thank you to Craig Gorton and Euro Towers for providing images for this presentation*