

ViziApps “OSHA” Mobile App

Solution Brief

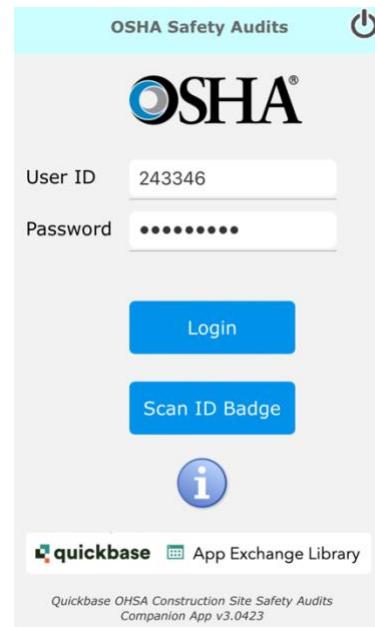
Introduction

The Quickbase Exchange **OSHA Construction Site Safety Audits** sample application for desktop and laptop users provides OSHA Audit support. The app contains 335 checklist questions organized by 25 categories, which are adopted from OSHA regulations (29 CFR Part 1926) that apply to construction work. The checklist provides questions indicating areas of safety concern and appropriate corrective actions as required to bring back the area of risk to compliance.

ViziApps provides a Mobile-First app that is intended for field use, built on the Quickbase OSHA App. This mobile app can be used by a field worker or auditor to perform an OSHA inspection at a construction site. The mobile app provides a “real world” experience, based on using an iPhone, iPad or Android phone or tablet, and leverages device-specific features that optimize the field data collection and reporting workflow.

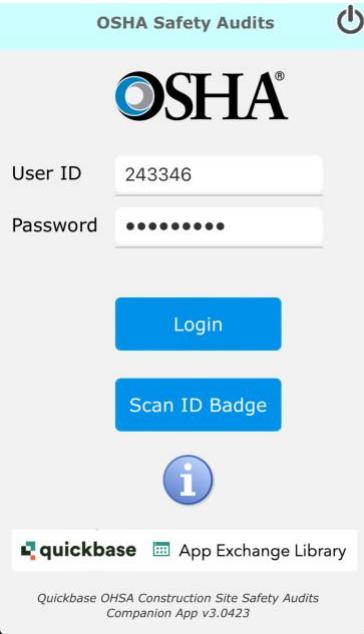
The ViziApps OSHA app demonstrates the following features:

- Login based on typing in an employee ID or using bar-code scanning of a badge
- Read and write access to Quickbase tables used in the app
- Drill down to Status lists, Checklists, and Corrective actions
- Add text content to Quickbase tables
- Ability to capture photographs and place into image field
- Real-time GPS lookup of location
- Voice to text capture of notes (for all text fields)
- Device-based signatures for certification of results
- Initiate phone calls (e.g., to call a supervisor)
- Show map based on current physical address
- iOS and Android support
- Support for both Phone and Tablet form factors



The following screenshots are directly from the ViziApps Mobile-First OSHA App.

1. Logging In



1. Login based on typing in an employee ID or using bar-code scanning of a badge.



2. Viewing all Audit Lists for an Employee



1. The **Audit List** Screen presents a list of all Audits associated with the logged in Employee.

2. The list items have three components: the Status (Pending, Completed, or In Progress), the Audit ID, and the Establishment Name.

3. Clicking any of these items will bring up an overview of all the “Checklists” that need to be completed for the Audit.

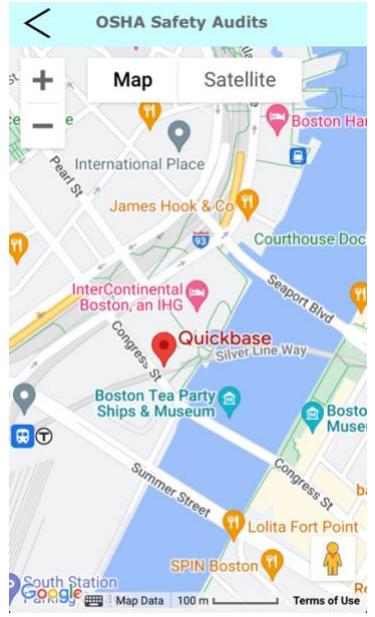
3. Viewing Checklists for an Audit



The screenshot shows the 'Audit Details' screen for an audit with ID P-U-21-02162023-0033. The job site is Apollo Constructions, New Jersey, and the building is Apollo Block B. The audit type is Unplanned. The screen displays categories of checklists: All CheckLists (44), Unaudited Checklists (32), Compliant Checklists (1), Non-Compliant Checklists (7), Warning Checklists (3), and N/A Checklists (1). A large blue button at the bottom right is labeled 'Certify Audit'.

1. The **Audit Details** Screen presents a list of all Audits checklists associated with an Audit.
2. The “view map” icon shows the user the actual physical address of the job site, via a table lookup.
3. A summary Summary of Audit completion status is provided for all Checklists.
4. By clicking on the relevant checklist, the user can then traverse to each item to capture data.
5. Click **[Certify Audit]** to certify the completion of a an audit.

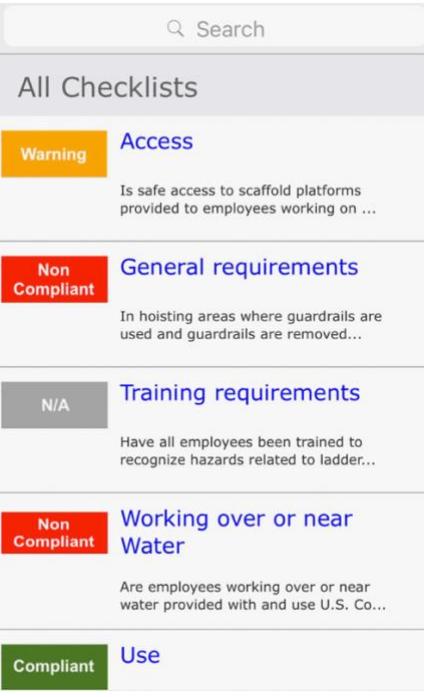
4. Viewing Map for Location of an Audit



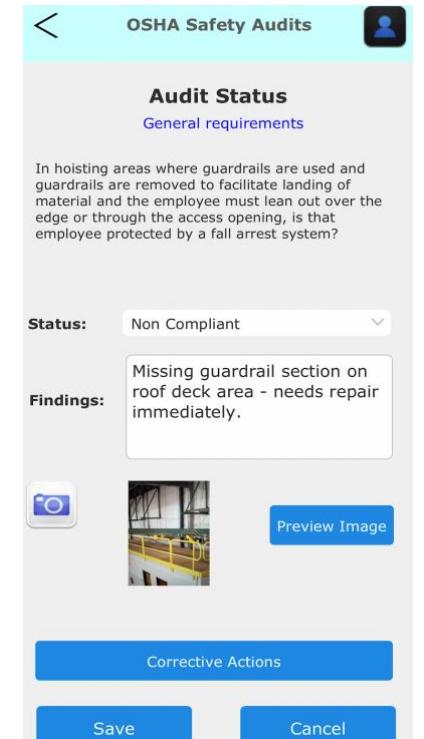
The screenshot shows the 'Map' screen for the audit. It displays an interactive map of the Boston area, specifically the Seaport and downtown regions. Key landmarks visible include the InterContinental Boston, James Hook & Co., Courthouse Doc, Boston Harbor, and the Boston Tea Party Ships & Museum. The map includes zoom controls and a legend for various icons.

5. The **Map** Screen shows an interactive map of the current job site, obtained via the address.
6. This same screen is used by another app screen for “Certifying” an Audit, in which case it can reflect the actual current user location via GPS.
7. Users can zoom in or out of the map.

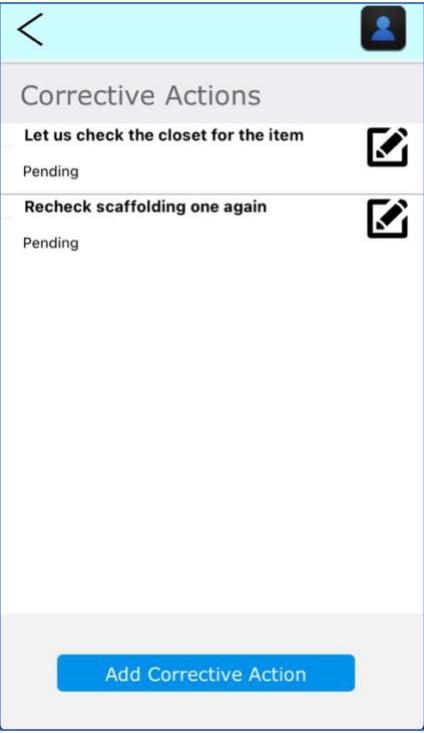
5. Viewing Checklists for an Audit

	<ol style="list-style-type: none"> 1. The All Checklists Screen presents a list of all Audits checklists associated with an Audit, via the “Audit Statuses” table. 2. Each list contains a status of the checklist item, a description, and the first 100 characters of the detailed description. 3. A field user would click the one of the checklist items, and then would be able to enter information about the status of each. 4. The list is scrollable and can be easily viewed in the field.
---	---

6. Viewing and Editing Individual Audit Status Checklist

	<ol style="list-style-type: none"> 1. The Audit Status Screen presents details on a specific checklist item. 2. Each entry shows the full description, Status, Findings and photograph capturing the job site. 3. Edit the “Status” via a drop-down list with one click. 4. The “Findings” text field can be edited from the keyboard, or from speech to text (microphone icon). 5. Photographs can be taken directly from the app, and [Preview Image] will show a full screen version. Photographs are placed into Quickbase image URL field. 6. Click [Corrective Actions] to add multiple items for this audit item.
---	---

7. Viewing the list of Corrective Action

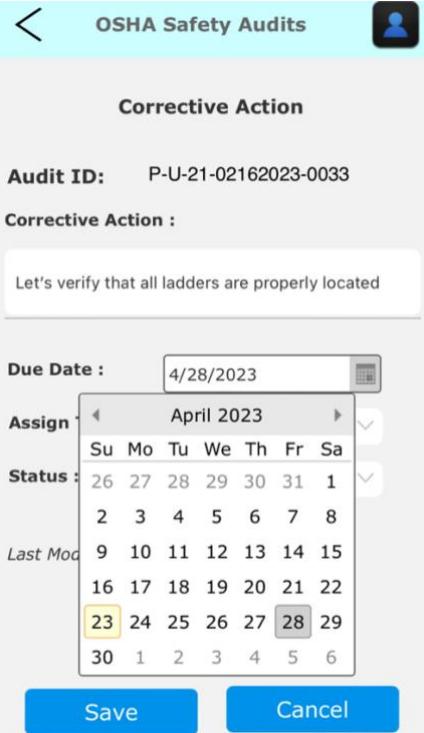


1. The **Corrective Actions** Screen presents a list of all Corrective actions, and allows the user to either edit an existing action, or Add a new one.
2. To edit an existing corrective action, click the Pencil icon.



3. To add a new action click [Add Corrective Action].
4. In both cases, you will be directed to the “Corrective Action” screen.
5. Note that once a Corrective Action is added, it cannot be deleted. It’s status is saved to the database.

8. Viewing and Adding Corrective Actions



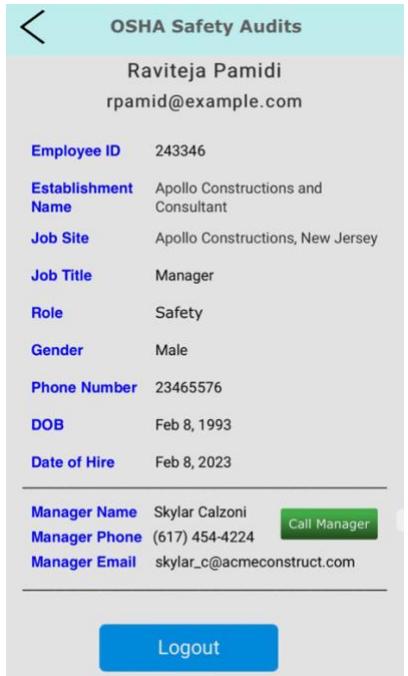
1. The **Corrective Action Status** Screen presents details on a specific checklist item.
2. Each entry shows the full description, Status, Findings and photograph capturing the job site.
3. Edit the “Status” via a drop-down list with one click.
4. The “Findings” text field can be edited from the keyboard, or from speech to text (microphone icon).
5. Photographs can be taken directly from the app, and **[Preview Image]** will show a full screen version.
6. Click **[Corrective Actions]** to add multiple items for this audit item.

9. Certify Audit



1. The **Certify** Screen presents an opportunity for the user to certify that the audit was completed.
2. Click **[Update Location]** to use the device GPS and update the current location. This will display the new **Latitude** and **Longitude**.
3. Click the “**view map**” icon to show actual location as updated. ([Step 4](#))
4. Click **[Input Signature]** to bring up a device “signature tablet” that can be physically signed.
5. Click **[Complete Audit]** to indicate the audit is done (this would normally write back to the database as well).

10. User Profile & Log Out



1. The **User Profile** Screen presents information about the user.
2. Information is read from the “Employee” table, based on the currently logged in user.
3. Click **[Logout]** to logout as this user and return to the home screen. This allows you to switch between users in the case of a shared device.
4. Click **[Call Manager]** to make a phone call on the device. You will see an overlay button with the option to call.



Quickbase + ViziApps: TANGIBLE ROI

Use Case: On-site OSHA Inspection using a Mobile App to replace desktop or laptop Excel or paper forms

On-Site Workflow	
Prepopulate Customer / Site Dispatch info	
Checklists: Y/N Buttons & Pulldown lists	
Photo capture and annotation directly into Quickbase	
Speech to Text Notes	
Auto Upload on Completion	
MINUTES SAVED PER INSPECTION	135

Office Workflow	
Notification of Completed Survey	
More Accurate Approvals, Avoid Corrections	
Converting Field Data to System of Record	
MINUTES SAVED PER INSPECTION	45

Value of Time Saved Per Inspection - \$150 to \$300

Value of Time Saved = Based on Cost of Inspector and Office worker ranging from \$51.28 to \$98.95 per hour (fully loaded FTE)

Quickbase + ViziApps: BUSINESS VALUE

Use Case: On-site OSHA Inspection using a Mobile-First App to replace desktop or laptop Excel or paper forms

Business Value to Customer	
Data quickly available in digitized form in System of Record	
Accurate and Timely Reporting on Business (KPIs)	
Faster operational decision making based on real-time information	
Insurance Risk Reduction; Reduce Lost Work Time; Avoid Rework, Fines, Penalties, and other Incident costs	
Reduced Defect, Delay, and Error Rates	
Rapid PoC development and field testing; Rapid updating of Apps to accommodate changes in regulations, business processes and requirements	
BUSINESS VALUE TO CUSTOMER	\$HIGH

Delivering Tangible Time Savings, ROI, & Business Value

For Quickbase Customers and Builders, ViziApps...

- Enables rapid creation of custom mobile apps using Quickbase builder skills: no coding required
- Expands the use of Quickbase to a new set of frontline and field workers to input data and access job specific workflows
- Provides app builders with full access to all device features, including photo and video capture, NFC, bar codes, QR codes, signature capture, phone calls, maps, and GPS metadata
- Supports offline mode including use of Quickbase databases, and photos
- Enables use of device push notifications supported by Quickbase pipelines to Twilio and other services

And for Large Enterprises, ViziApps...

- Enables builders to create “company branded” enterprise apps for app stores or private distribution
- Supports the creation of apps based on global templates using company branding guidelines
- Supports the use of JavaScript in conjunction with the no-code environment
- Allows companies to run the ViziApps platform on public or private cloud, enabling secure and seamless access to data and services on those clouds

The Quickbase desktop or laptop “OSHA Construction Site Safety Audit” app is available to Quickbase customers in the Quickbase Exchange under Sample Apps.

The ViziApps mobile-first “OSHA Construction Site Safety Audit” is available for download by ViziApps customers or by registering for a Free Trial Account at www.ViziApps.com.

To learn more about ViziApps or the OSHA mobile app please contact:

Joe Ryan

SVP Sales & Technical Services
ViziApps, Inc.

Email: solutionconsulting@viziapps.com

Phone: +1.617.454.4224

Web: www.viziapps.com

APPENDIX

The Quickbase desktop or laptop OSHA Construction Site Safety Audits app is available to Quickbase customers in the Quickbase Exchange Sample Apps

OSHA Construction Site Safety Audits

Created By Alice Rich

App description

The safety audit app helps to identify & prevent, safety & health hazards in a construction site. This checklist will help to comply with the Rules & Regulations of the OSHA Act. This checklist contains 335 checklist questions and are organized under 25 categories. The standards referred to are adopted from 29 CFR Part 1926, having applicability to construction work. The checklist is designed in such a manner that a negative answer to any question indicates an area of safety concern and appropriate corrective action is required to bring back the area of risk to compliance.

App Features:

1. Scheduled and Unplanned Audits (Full/Partial)
2. Near Miss Observations
3. Preventive and Corrective Actions
4. Audit Report Generation (PDF/Word - Partner Extension Required)
5. Workflow for Audits, Corrective Actions, Near Miss and Preventive Actions
6. 15 Executive Dashboards & 16 Operations Reports

Audit categories:

1. Administrative Requirements	14. Hoists, Elevators, & Conveyors
2. General Safety & Health	15. Motor Vehicles, Mechanized Equipment
3. Occupational Health & Environmental Controls	16. Excavations
4. Personal Protective Equipment & Life Saving Equipment	17. Concrete and Masonry Construction
5. Fire Protection	18. Steel Erection
6. Signs, Signals & Barricades	19. Underground Construction, Caissons, Cofferdams, & Compressed Air
7. Materials Handling, Storage, Use & Disposal	20. Demolition
8. Tools, Hand & Power	21. Blasting & Explosives
9. Welding & Cutting	22. Power Transmission & Distribution
10. Electrical	23. Rollover Protective Structures (ROPS): Overhead Protection
11. Scaffolding	24. Stairways & Ladders
12. Fall Protection	25. Toxic & Hazardous Substances
13. Cranes, Derricks	

App tables

 Audits	 Audit Statuses	 Corrective Actions	 Observations	 Attachments	 Establishments	 Job Sites	 Buildings	 Employees	 Categories	 Category Checklists	 Assets	 Maintenance Log	 Documents	 Feedbacks
--	--	--	--	---	--	---	---	---	--	---	--	---	---	---

App Credits: Mouli Ponnupandy, Vinay Kumar, Raviteja Pamid, Arti Joshi, Prashant Hubballi. **Quickbase, Inc. 2023**