

# ViziApps “OSHA” Mobile App

## *Solution Brief*

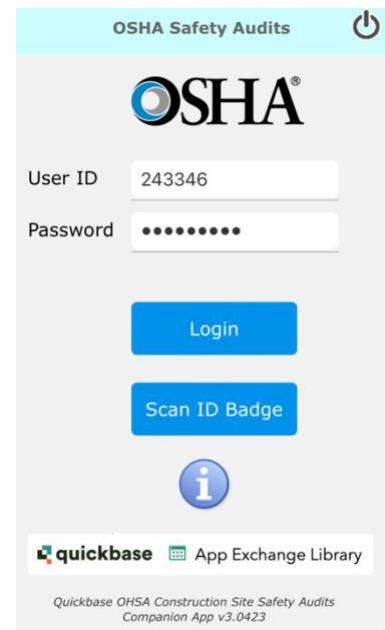
### Introduction

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.**

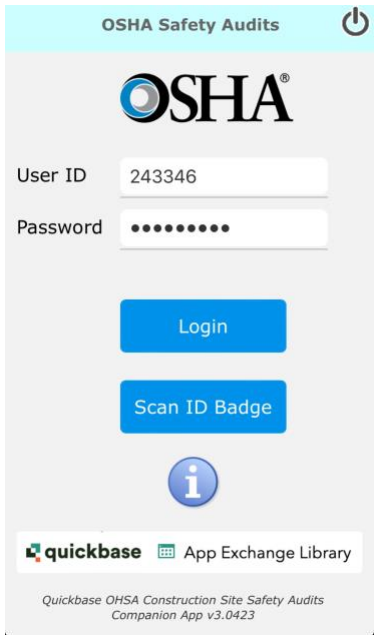

The ViziApps OSHA app demonstrates the following features:

- 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

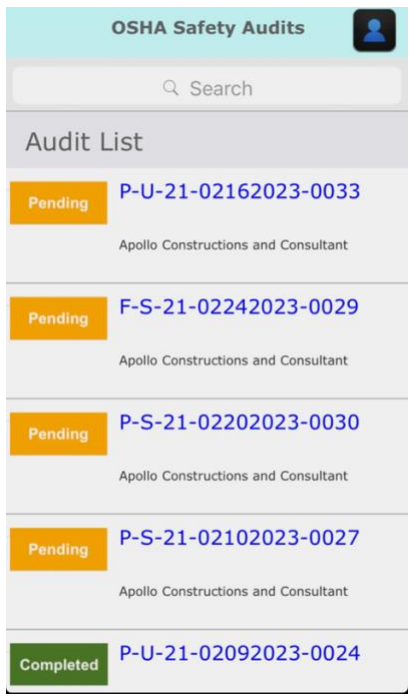


*The following screenshots are directly from the ViziApps Mobile-First OSHA App.*


## 1. Logging In

	<ol style="list-style-type: none"> <li>1. Login based on typing in an employee ID or using bar-code scanning of a badge.</li> </ol> 
---	---

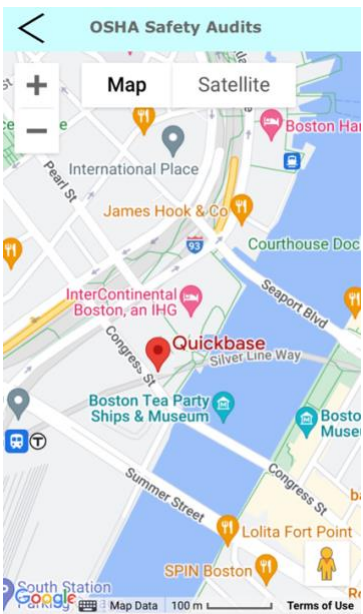
## 2. Viewing all Audit Lists for an Employee

	<ol style="list-style-type: none"> <li>1. The <b>Audit List</b> Screen presents a list of all Audits associated with the logged in Employee.</li> <li>2. The list items have three components: the Status (Pending, Completed, or In Progress), the Audit ID, and the Establishment Name.</li> <li>3. Clicking any of these items will bring up an overview of all the "Checklists" that need to be completed for the Audit.</li> </ol>
---	---

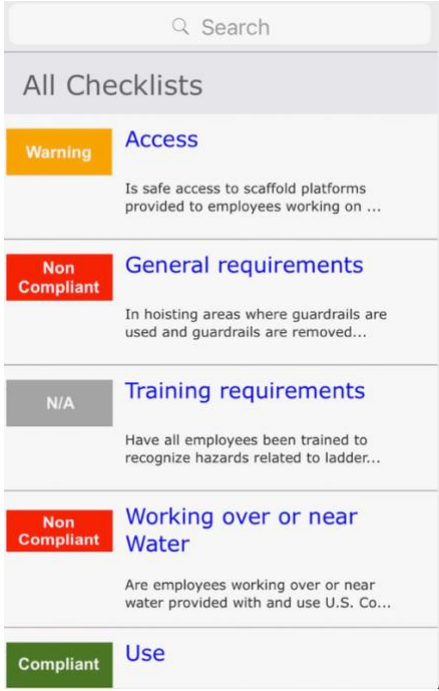
### 3. Viewing Checklists for an Audit

 <p>The screenshot shows the 'OSHA Safety Audits' screen. At the top, there's a back arrow, the title 'OSHA Safety Audits', and a user profile icon. Below this, the 'Audit Details' are listed: 'P-U-21-02162023-0033'. The 'Job Site' is 'Apollo Constructions, New Jersey', the 'Building' is 'Apollo Block B', and the 'Type' is 'Unplanned'. There's a 'view map' icon next to the building name. Below the details, there's a list of checklist counts: 'All CheckLists' (44), 'Unaudited Checklists' (32), 'Compliant Checklists' (1), 'Non-Compliant Checklists' (7), 'Warning Checklists' (3), and 'N/A Checklists' (1). At the bottom, there's a blue button labeled 'Certify Audit'.</p>	<ol style="list-style-type: none"> <li>1. The <b>Audit Details</b> Screen presents a list of all Audits checklists associated with an Audit.</li> <li>2. The “<b>view map</b>” icon shows the user the actual physical address of the job site, via a table lookup.</li> <li>3. A summary Summary of Audit completion status is provided for all Checklists.</li> <li>4. By clicking on the relevant checklist, the user can then traverse to each item to capture data.</li> <li>5. Click [<b>Certify Audit</b>] to certify the completion of a an audit.</li> </ol>
---	---

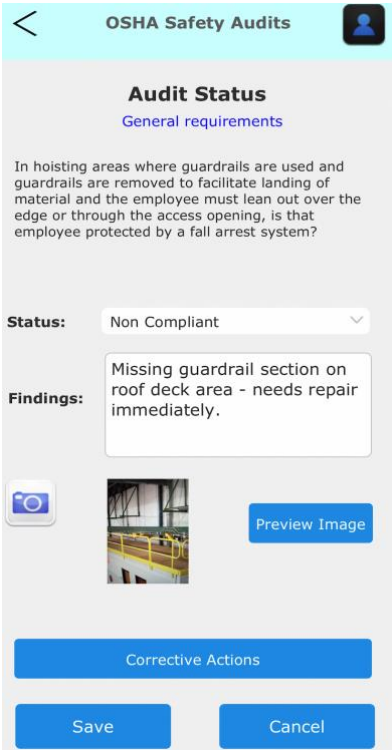
### 4. Viewing Map for Location of an Audit

 <p>The screenshot shows the 'Map' screen. At the top, there's a back arrow, the title 'OSHA Safety Audits', and a user profile icon. Below this, there's a map of the area around Boston, showing streets like Congress St, Summer Street, and Seaport Blvd. A red pin marks the location of the audit site, labeled 'Quickbase'. Other landmarks like 'Boston Tea Party Ships &amp; Museum' and 'Lolita Fort Point' are also visible. The map includes a scale bar and a 'Terms of Use' link.</p>	<ol style="list-style-type: none"> <li>5. The <b>Map</b> Screen shows an interactive map of the current job site, obtained via the address.</li> <li>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.</li> <li>7. Users can zoom in or out of the map.</li> </ol>
--	--

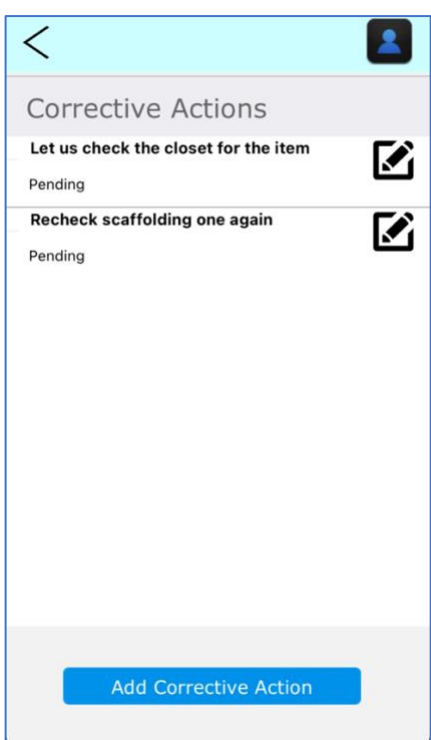
## 5. Viewing Checklists for an Audit

	<ol style="list-style-type: none"> <li>1. The <b>All Checklists</b> Screen presents a list of all Audits checklists associated with an Audit, via the “Audit Statuses” table.</li> <li>2. Each list contains a status of the checklist item, a description, and the first 100 characters of the detailed description.</li> <li>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.</li> <li>4. The list is scrollable and can be easily viewed in the field.</li> </ol>
---	---


## 6. Viewing and Editing Individual Audit Status Checklist

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

## 7. Viewing the list of Corrective Action

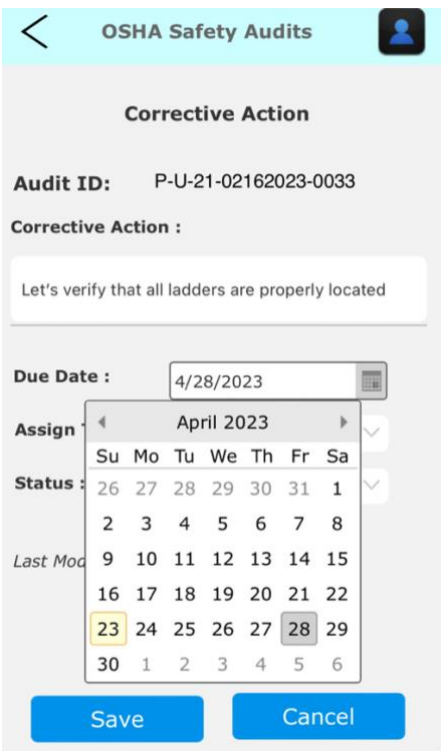


1. The **Corrective Actions** Screen presents a list of all Corrective actions, and allows the user to either edit an existing action, or Add a new one.
2. To edit an existing corrective action, click the Pencil icon.



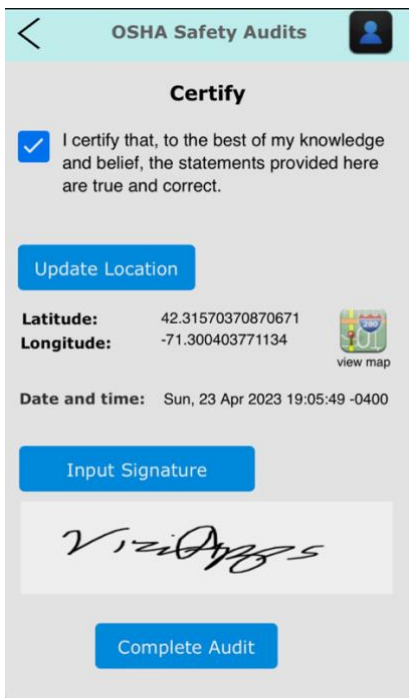
3. To add a new action click [Add Corrective Action].
4. In both cases, you will be directed to the “Corrective Action” screen.
5. Note that once a Corrective Action is added, it cannot be deleted. It’s status is saved to the database.

## 8. Viewing and Adding Corrective Actions

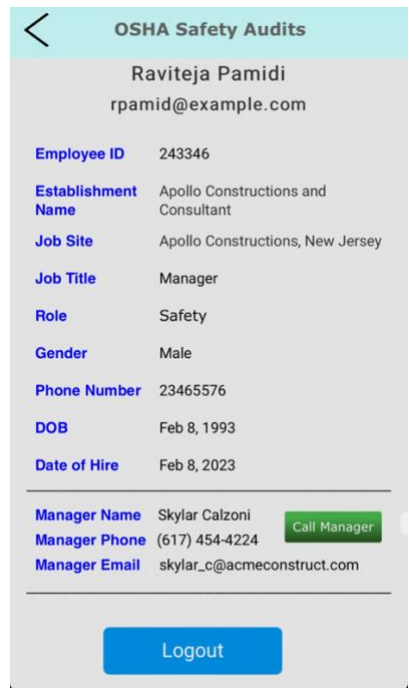
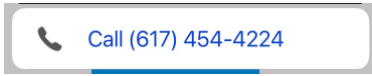


1. The **Corrective Action Status** Screen presents details on a specific checklist item.
2. Each entry shows the full description, Status, Findings and photograph capturing the job site.
3. Edit the “Status” via a drop-down list with one click.
4. The “Findings” text field can be edited from the keyboard, 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

	<ol style="list-style-type: none"> <li>1. The <b>Certify</b> Screen presents an opportunity for the user to certify that the audit was completed.</li> <li>2. Click <b>[Update Location]</b> to use the device GPS and update the current location. This will display the new <b>Latitude</b> and <b>Longitude</b>.</li> <li>3. Click the “<b>view map</b>” icon to show actual location as updated. (<a href="#">Step 4</a>)</li> <li>4. Click <b>[Input Signature]</b> to bring up a device “signature tablet” that can be physically signed.</li> <li>5. Click <b>[Complete Audit]</b> to indicate the audit is done (this would normally write back to the database as well).</li> </ol>
---	--

## 10. User Profile & Log Out

	<ol style="list-style-type: none"> <li>1. The <b>User Profile</b> Screen presents information about the user.</li> <li>2. Information is read from the “Employee” table, based on the currently logged in user.</li> <li>3. Click <b>[Logout]</b> 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.</li> <li>4. Click <b>[Call Manager]</b> to make a phone call on the device. You will see an overlay button with the option to call.</li> </ol> <div data-bbox="889 1684 1258 1759">  </div>
---	---



## 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	
<b>MINUTES SAVED PER INSPECTION</b>	<b>135</b>

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

**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	
<b>BUSINESS VALUE TO CUSTOMER</b>	<b>\$HIGH</b>

**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](http://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](mailto:solutionconsulting@viziapps.com)

Phone: +1.617.454.4224

Web: [www.viziapps.com](http://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



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