“The Best Safety Apps For Your Mobile Devices”

By

Dave Weber CSP
Like Most Of You, I Love Technology

- Currently have 3 computers & 5 mobile devices at home
- Developed 3 websites & 2 apps
- Buy and sell domain names (domain squatter)
- My 3 sons are entrepreneurs who formed a leading company in the field of monetization technology for the new app economy
Online Safety Training: A Comprehensive Guide For Managers

April 6, 2015  Dave Weber

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Online Safety Training
101 Training Formats
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Choosing a Vendor
Advice and Considerations
Our Recommended Training Provider
Unlimited Training Packages vs. Per-User Plans
Online Safety Training
Infographic
Introduction
It's 2015, and today's hottest occupational safety and health...


April 10, 2015  Dave Weber

Every large company that I’ve ever worked with has had a company safety manual. These manuals include the company’s: safety policy statement, safety policies, safety rules, and sometimes even safety procedures. But are these voluminous manuals really needed at medium and smaller companies?

Health and Safety Plan
hasonline.com
Easiest Way To Create HAZWOPER Health and Safety Plans. Try It Now

Free Tool-Box Talks
Free Arc Flash Handbook
Microsoft CRM Training
Dave's Expert Auto
Practical Safety Training
Goals Of This Presentation

• Learn how safety apps are very different from other apps
• Identify the different types of safety apps and how they are used
• Review today's best safety apps
• Discuss the future of safety apps
Announcements

- Mostly “my opinions” based on personal experience with safety apps
- Questions and comments welcomed any time
What Are Mobile Devices & Apps?

- Computers are for “creating”
- Mobile devices are for “consuming”
- Apps are little computer programs (software) for mobile devices that serve a specific function –
  - Games & entertainment
  - Communications
  - E-commerce
  - Information / data base / numbers crunching
- Mobile devices are ubiquitous (9 in 10 adults carry a mobile device – concert last month)
Apple/iOS vs Google/Android (Remember VHS vs Beta?)

- Apple got out first in 2007 (Android 2010) & had big lead, Android caught up – now both over 1,000,000 apps
- USA Apple stronghold, World is Android
- Daily apps download worldwide
  - Android – 83M
  - iOS – 50M
  - Windows – 4M
- Hardware today, Apple iPad best tablet (> 22 Android device makers)
- Software/Apps today, Apple (iOS) has the most & the best safety apps
Apple / iOS Currently Has The Most Good Safety Apps

- If developer can only afford to develop one safety app, most choose Apple / iOS
- Of my highest rated apps
  - 40 Apple / iOS
  - 19 Google / Android
- If you are serious about safety apps use an iPad or iPhone!
The Economics Of Safety Apps

- Popular games have downloads in the tens of millions - "Temple Run" had over 10,000,000 downloads in the first week it was launched in China
- One entertainment app cost $3,000,000 to develop
- Typical safety app costs $30,000 to $60,000 to develop
- Most safety apps < 5,000 downloads - the most popular safety app only 27,000 downloads
- Do the math, it’s tough for a safety app to break even – that’s why most are developed by large organizations who don’t expect to recoup their developmental costs
The App World Really Is Mostly About Games  (App Store - Google Play)

- Searched “Toxic” – “Toxic Killer Zombie” game
- Searched “Lasers” – “Super Laser Blaster” game
- Searched “Falls” – “Fall Down Fred” game
- Searched “Burn” – “Burn The Ants” game
“Fall Down Fred” Game
Main Types Of Safety Apps

- Safety training (videos, PowerPoints)
- Safety - inspection, audit, risk assessment
- IH survey instruments (noise, light)
- Ergonomics (lifting, office, stretching)
- Emergency prep (natural disasters, chemical spills, fire prevention)
- Safety standards & updates
- IH data bases
- Safety magazines / news
- Misc. – 1st aid, work alone alerts, vendors
When Do We Use Safety Apps?

- When there’s no Internet service available (airplane)
- When you need to take safety information/resources onto the work floor or job site
SafetyAwakenings.com Reviews A New Safety App Each Monday

- Lots of worthless safety apps (e.g. all radiation measurement apps & most sound measurement apps are “toys”)
- Don’t believe ratings in app store (friends, relatives & employees)
- We are independent & unbiased (some developers hate us)
- Save you the time and money buying and testing apps
- We only review free (or low cost) apps
Lockout Tagout
ManageWare

$199.99

Description
LockOut TagOut app creates the lockout tagout procedure that is required by OSHA for removing energy and keeps track of them for future use.
How Do We Find Safety Apps To Review?

- Apps store (or Google Play) key word searches
- Word of mouth / LinkedIn
- Developer requests / Beta testing (Google/Bing/DuckDuckGo rankings)
- App Crawlr & Discovr Apps
AppCrawlr

Ever have difficulty finding the app that you need? Either it’s not available, too expensive, or does not work on the type of mobile device you use.

Recently I discovered a new website that has helped me to find safety apps that I never dreamed existed! This website is called AppCrawlr! AppCrawlr offers the following features that are not available anywhere else:

- search for apps by: category, topic, objective, audience and features
- filter your searches by: relevance, price, popularity, trending, price drop, lesser known
Discover Apps

Free Tool-Box Talks
Download Hundreds of Toolbox Talks, PowerPoints, Meetings, Tools & More
Safety App Of The Week
New Apps Reviewed Each Monday

Recently, thousands of mobile apps have been developed for mobile devices such as smartphones and tablet computers. Hundreds of these apps have been designed to help safety professionals control workplace accidents and illnesses. Unfortunately, many of these “safety apps” are nothing more than fancy advertisements, toys, or a quick way for the developer to make a buck.

However, there are a few outstanding safety apps that are must-have tools for every progressive safety professional. But who has the time to review hundreds of safety apps in order to identify the best ones? We do!

Every Monday we publish a new “Safety App of the Week” article on our home page. We critically review and rate one or more workplace safety and health apps each week.

Available on the App Store

We test “Apple” mobile apps on version 4 Apple iPads. Each app is rated from ♥ to ♥♥♥♥♥ (♥♥♥♥♥ is the best).

Available on the Android App Store

We test “Android” mobile apps using Samsung Galaxy Tab 3s. Our Android app ratings are highlighted in an Android green color.
Safety App Of The Week

Format

Thumbs Up

- cost is free
- no registration or sign in required
- well organized – easy and logical to use without any instruction
- beautiful graphics, looks great on both iPhones & iPads
- first, pinpoint the symptoms; then search for the cause; finally, find the nearest medical facility that can appropriately treat the cause
- nationwide directory of hospitals, physicians, urgent care, emergency rooms, and pharmacies
- maps to your chosen medical provider
- medical glossary
- medication side effects & overdose instructions
- listing of emergency hotlines you can call
- lots of photos and videos help you to determine the cause and treatment
- developed by two emergency room physicians
- a must have app for first aiders, EMTs, nurses, care givers, parents and any company that has employees who travel (truckers, salespersons, contractors, delivery, etc.)
- a must have app for family vacation travel
- numerous users have said this app saved a life!

Thumbs Down

- some of the videos are very graphic and show lots of blood
- you cannot find any health care providers when off-line

Overall Rating

- iPad with WiFi: ★★★★★
- iPhone: ★★★★★
- Android: ★★★★★
The Best Safety Apps!
SafetyAwakenings.com
“Best” Safety Apps

• On my safety apps page I review and rate dozens of safety apps
• The highest rated apps in each category are shown first
• Strictly speaking, the “best app” in each category is the highest rated app in that category
Safety App Category Rankings

- Safety App Of The Week Archives -

Ergonomics
- ILO Ergonomic Checkpoints
- Wellinomics Stretches
- Office Ergonomics
- Ergonomics

Lifting / Manual Material Handling
- LiftRight
- Safe Lifting Calculator
- HT NIOSH Lift Calculator
- Manual Handling
- EA Sremote

Employee Evaluations / Screening
- Vision Test
- Siemens Hearing Test

Safety Inspection / Audit
- iAuditor – Safety Audit and Checklist
Dave Weber’s “Favorite” Apps

- You may be interested in mainly construction apps, another may be interested in mainly IH
- Some highly rated apps have limited appeal (*Safety & Health Practitioner Magazine ******)
- Some low rated apps have broad appeal (*USW Safety* only app with MSDS ***)
- So, my “Favorite” apps are combination of the app’s rating and its’ appeal to typical safety professionals
Let’s Review My Favorite Apps (no need for notes)

Working Alone

- Safety Alert.E ♥♥
- Working Alone ♥♥

Our Favorite Safety Apps

- Top 11 Apple iPhone/iPad iOS Safety Apps
- Top 12 Google Android Safety Apps

Safety Apps That Didn’t Make The Cut

- 75 Safety apps that did not make the cut

Not Otherwise Classified (NOC)

- Incorporate safety apps into your training
- The Future Of Safety Apps
- AppCrawlr – apps search engine
- Discover Apps – discover new apps
- How Are You Using Mobile Apps?
- What Are Your Favorite Safety & Health Apps?
My Favorite Google Android Safety Apps
During the last three years we've reviewed hundreds of safety apps. We're often asked “Which of these apps are our all time favorites?”

If told that we could only use twelve Google Android safety apps ever again, the below apps (in no particular order) are the ones that we simply could not live without:

- ILO Ergonomic Checkpoints
- LiftRight
- iAuditor – Safety Audit and Checklist
- Tornados / Hurricanes / Earthquakes by American Red Cross
- NECA Personal Protective Equipment (PPE) Selector
- Toolbox Meetings
- FallClear LITE – Fall Arrest Clearance Calculators
- WISER
- WorkSafeBC OHS Regulation
- ISHN
- Electrical Safety Tests
- Pocket First Aid & CPR
“ISHN” = Best Free Safety Magazine
“Toolbox Meetings” = Everything You Need To Run Employee Safety Meetings
“Electrical Safety Tests” = How To Do Electrical Safety Tests

Example, with the multimeter in the image below, there are 5 different resistance ranges to choose from: 0-200Ω, 200-2kΩ, 2k-20kΩ, 20k-200kΩ, and 200k-2MΩ.

Translate This Page
Select Language
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“Tornados/Hurricanes/Earthquakes” by Red Cross = Emergency planning & alerts

- Prepare
- Test
- Tornadoes
- Shelters

Prepare

What is a Tornado?

Right before & during
Don’t wait to act

After
Picking up the pieces

Recovery
Steps to strengthen your home

Plan ahead
Be better prepared for next time
“ILO Ergonomic Checkpoints” = 132 Ergo Checklists (customize & make own)

<table>
<thead>
<tr>
<th>Ergonomic Checkpoints</th>
</tr>
</thead>
<tbody>
<tr>
<td>Checkpoints</td>
</tr>
<tr>
<td>Browse checkpoints and build checklists</td>
</tr>
<tr>
<td>Checklists</td>
</tr>
<tr>
<td>Manage and export your checklists</td>
</tr>
<tr>
<td>How to use Checkpoints</td>
</tr>
<tr>
<td>User guide and practical tips</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>All Checkpoints</th>
</tr>
</thead>
<tbody>
<tr>
<td>Browse the full list of checkpoints. Create checklists by tapping the + symbol to add or remove checkpoints.</td>
</tr>
<tr>
<td>Materials storage and handling</td>
</tr>
<tr>
<td>1. Clear and mark transport routes.</td>
</tr>
<tr>
<td>2. Keep aisles and corridors wide enough to allow two-way transport.</td>
</tr>
<tr>
<td>3. Make the surface of transport routes even, not slippery, and without obstacles.</td>
</tr>
<tr>
<td>4. Provide ramps with a small inclination instead of small stairways or sudden height differences within the workplace.</td>
</tr>
<tr>
<td>5. Improve the layout of the work area so that the need to move materials is minimized.</td>
</tr>
</tbody>
</table>
“NECA PPE Selector” = Helps Select The Best Arc Flash PPE

Below is this week’s “Safety App of the Week”. Every Monday we publish an article that reviews and rates a new workplace safety app. Our testing is done on Apple iPads and Samsung Galaxy Tab 3s. We rate each app from 1 to 5 stars (5 stars is the best). Prior app of the week articles are archived here.

NECA Personal Protective Equipment (PPE) Selector

Official Description

“NECA’s popular and useful Personal Protective Equipment (PPE) Selector application puts all the effectiveness of this guide in the hand of the users. Based on the NFPA 70E Tables, this app is task-based and assists users in quickly determining the level of personal protective equipment that must be worn based on the level of incident energy.

NECA is the voice of the $130 billion electrical construction industry that brings power, light, and communication technology to buildings and communities across the U.S. Learn more at necanet.org.”
“iAuditor” = 20,000 Safety Checklists
“LiftRight™ = Helps You Use The NIOSH Lifting Equation Anytime, Anywhere.”

Below is our “Safety App of the Week”. These weekly features are published every Monday. New apps are tested on our Apple iPads and rated from 1 to 5 stars, with 5 stars being the best. Old app of the week articles are archived here.

LiftRight

“LiftRight™” from EMC Insurance Companies makes it easier than ever to use the NIOSH Lifting Equation to analyze the safety of lifting tasks. Just enter your lift data and let LiftRight perform the calculations for you.

- Illustrated measurement guide helps you measure accurately
- Calculates multipliers, recommended weight limit (RWL) and lifting index (LI)
- Provides recommendations to help you improve the safety of the lift
- Saves completed lifts to revisit later
- Includes option to attach notes or photos for more complete lift information
“FallClear LITE” = Mandatory When Workers Wear Fall Protection
“WISER” = Hazardous Substances Information For Emergency Responders

Below is our “Safety App of the Week”. These weekly features are published every Monday. New apps are tested on Apple iPads and rated from ☹ to ☺☺☺☺☺-☺☺☺☺ is the best. Prior app of the week articles are archived here.

WISER for iOS

Official Description

“WISER (Wireless Information System for Emergency Responders) is a mobile application designed to assist first responders in hazardous material incidents.

First responders in general, and HAZMAT units in particular, must make many decisions quickly in handling hazardous-materials incidents. They need accurate information about the hazardous substances, the emergency resources available, and the surrounding environmental conditions to save lives and minimize the impact on the environment and physical property. The WISER application extracts content from TOXNET’s Hazardous Substances Data Bank (HSDB), an authoritative, peer-reviewed information resource maintained by the National Library of Medicine, and places that information into the hands of...
“WorkSafe BC OHS Regulations” = Canadian Safety & Health Regulations

Below is our “Safety App of the Week”. These weekly features are published every Monday. New apps are tested on Apple iPads and rated from 1 to 5 (5 is the best). Prior app of the week articles are archived here.

WorkSafeBC OHS Regulation

Official Description

“The Occupational Health and Safety (OHS) Regulation contains legal requirements that must be met by all workplaces under the inspection jurisdiction of WorkSafeBC. Many sections of the Regulation have associated guidelines and policies. This mobile app allows users to search and browse the OHS Regulation, Prevention Policies, OHS Guidelines, and WCB Standards even if there is no Internet or cell phone service available.

What’s New in Version 2.0

- Improved navigation. New menu bar added.
- Copy and paste functionality. Users can copy and paste chunks of content.
- E-mail feature. Users can e-mail content.
My Favorite Apple (iPad/iPhone)
iOS Safety Apps
During the last three years we’ve reviewed hundreds of Apple iOS safety apps. We’re often asked “Which of these apps are our all time favorites?”

If told that we could only use eleven iOS (iPad / iPhone) safety apps ever again, the below apps (in no particular order) are the ones that we simply could not live without:

- SPLnFFT
- NIOSH Pocket Guide to Chemical Hazards
- OSHA Safety
- NFPA 101 & 70E
- IH Calculator LITE
- Units – Free Unit Converter
- ProChoice Safety Gear Guide
- HSEQ Manager
- Easy OHS – Hazard & Risk Identification Record
- Wellnomics Stretches
- ChemAlertLite
“SPLnFFT” = Best Noise Measurement App

The following apps were found to be inadequate: Decibel Pro II, dB, Sound Meter, Noise Alarm, iSPL, Audio Tool, Noise Meter, Decibel Ultra, dB Meter Pro, Decibel 10th, Decibel Meter, Sound Level Meter and Noise Sniffer. They lacked key features and were inaccurate. We thought it would be a waste of time to publish their test results.

Our highest rated app is the SPLnFFT app (see below image) for $3.99. During the four tests we conducted, this was the only app to absolutely nail the results each and every time. It passed all four tests with flying colors. In fact, this app’s results were so close to the results obtained using the $2,000 noise meter that the tiny differences between the two are probably due to sampling error. We do have one major concern about this app — it will only measure noise up to a maximum of 94 decibels!

The SoundMeter+ app for $1.99 is our second highest rated app (passed three tests). It’s not as accurate on the higher frequencies as the SPLnFFT app is, but it will record sound levels up to at least 116dB (maybe higher, but 116dB was as high as we cared to test). Also, this app offers the most features.
“ChemAlertLite” = Only App For Industrial & Consumer Products

We have the answers to all your chemical safety management needs.

24 Hour emergency support

Independently Researched ChemAlert Reports
User-friendly interface – minimal training costs

Risk assessment tool

Over 6000 sites worldwide

Reduce your EHS expenses

Generic or Transcribed Reports

Colour-coded Chemical Rating System

Multi-lingual capabilities

Original Unaltered Manufacturers’ MSDSs

24 Hour emergency support
“Easy OHS” = Best Free Risk Assessment App (attach photos & videos)
“NIOSH Pocket Guide To Chemical Hazards” = Best Chemical Safety Data Base

While every effort has been made to ensure the accuracy of information cited herein, the publisher of this NIOSH Pocket Guide to Chemical Hazards assumes no responsibility for the use or misuse of information contained in this application. During emergency operations it is considered good practice to try to confirm information by using at least three different sources of data. ALWAYS call the appropriate Emergency Response Agency and/or Organization identified in the shipping papers. The authors, editors, publisher, and the U.S. Government Organizations cited herein cannot be held responsible for any errors or omissions found in this application. Use of trade or brand names is for illustrative purposes only and does not imply endorsement. This App is to be used for educational purposes only and is intended to work on Apple iOS devices as outlined in Apple’s iOS SDK Developer and End User Agreements.
“OSHA Safety” = Having The OSHA Standards On Your Mobile Device

Below is our “Safety App of the Week”. These weekly features are published every Monday. New apps are tested on Apple iPads and rated from ♥ to ♥♥♥♥♥ (♥♥♥♥♥ is the best). Prior app of the week articles are archived here.

OSHA Safety

Official Description

This OSHA Safety App includes the full text of the OSHA regulations for General Industry and Business. These OSHA 1910 Regulations cover most work places, including manufacturing, service industries, warehouses and distribution centers, and the medical/dental fields.

OSHA is the main federal agency charged with the enforcement of safety and health legislation.

Features Include:
- Contains the full text of OSHA Regulations for General Industry (Part 1910).
- Contains the full text of the OSHA regulations that apply to most US businesses.
- Doesn’t require Internet access, so it can work in remote locations and on factory floors.
- Provides full access to the latest OSHA 1910 Regulations.
- Provides OSHA’s official interpretations of their regulations.
- Provides the latest OSHA news.
- Provides OSHA’s latest weekly news bulletin.

This app contains many new and useful features to improve OSHA safety. It provides all of the OSHA safety information necessary to comply with OSHA 1910 regulations, to ensure safer.

Translate This Page

Select Language

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“NFPA 70E & 101” = Put These NFPA Standards On Your Mobile Device

3. “NFPA 70E” Official Description

National Fire Protection Association

Read the Code
Browse the articles of the 2012 edition of NFPA 70E or search by keyword.

Stay Informed
Read the latest NFPA 70E news and stay up-to-date with NFPA code development.

Stay In Touch
Sign up to receive critical fire and life safety information via email.
"IH Calculator Lite" = Interactive Calculator That Performs Occ Health and Safety Calculations
"Units – Free Unit Converter" = The Best Of The Unit Conversion Apps

Below is our "Safety App of the Week". These weekly features are published every Monday. New apps are tested on Apple iPads and rated from ★★★★★ to ★★★★★★ (★★★★★ is the best). Prior app of the week articles are archived here.

Units – Free Unit Converter

Official Description

"Units is a really useful app that lets you easily convert various units into lots of others. Units can convert hundreds of units from 43 different categories including Speed, Time, Length, Volume, Area, Power, Temperature, Fuel Consumption, Clothing & Shoe Sizes and loads more!

Units is now a fully universal app with native support for iPhones, iPod touches and iPads. As an added bonus, Units also has a built-in ruler; for doing small, quick measurements when the need arises.

• Convert hundreds of units – Units has over 800 units across 43 different categories.
• Convert currency – Units can convert between 88 different currencies, with rates updated daily.
• Hide unused units – Units lets you hide units you don't use, allowing you to maintain a streamline conversion work flow."

Translate This Page
Select Language
Powered by Google Translate
“ProChoice Safety Gear Guide” = Stunning App With Good Information On PPE: Selection, Fitting And Maintenance

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“HSEQ Manager” = Reporting System User Creates Report Then Sends It Out To Be Followed Up On
“Wellnomics Stretches” = 25 Stretching Videos To Help Prevent CTDs
What Are Your Favorite Safety Apps That We Have Not Mentioned?
Every Monday for three years we’ve reviewed and rated a new iOS (or Android) occupational safety and health app. We focus our reviews on apps that we believe the majority of our readers would be interested in.

For every app that we share with you there are a number of apps that we looked at but chose not to do an in-depth review on. Reasons we reject apps include they:

- are too expensive
- periodically lock-up
- require an ongoing subscription
- require elaborate registration procedures
- are confusing to use & have no instructions
- have poor content from a technical standpoint
- sell the app on a website & not App Store/Google Play

we’ve reviewed other apps from developer & they were all poor

Below are a few of the apps that did not make our cut.

- Safety Meeting App – Android
- Lockout Tagout – Android
- SBN Lockout/Tagout
- GoCanvas.com Safety-Links Health & Safety Apps
- Arch Flash Analytic – Android
- LabelAssist
- CPR Video Instruction – Android
- Ezy MSDS Pro (and their “Lite” version too) – Android
- SafetyGrid
- Incident – Android
- KSS iSafety – Android
Who Should Develop New Safety Apps?

- Apps of universal interest (e.g. games) have a wide audience and bright future.
- Safety apps appeal to a very small audience, the economics often do not justify development of new apps by individuals (or for profit companies).
- If safety apps are to grow in number and quality, we need more support from large organizations.
Large Organizations That Should Develop New Safety Apps (Or Provide Grants)

- ASSE has developed just 1 app
- NSC has never developed an app
- Government - OSHA 1, NIOSH 3
- Universities with EHS & Computer curriculums
- Insurance companies
- Safety product mfgs & vendors
Further Reading

One “tech junkie’s” story: “Successful safety apps don’t happen overnight”

By CHARLES WESNER, CPP

Technology has become a driving force in creating a safer workplace. For those organizations who have not invested in developing apps, it’s not just a matter of time before they are left behind. Safety professionals are finding new ways to make safety apps a reality for their organizations.

It started with the PacifiCare app, the first head-up PAPR combining hands-free voice protection and an APP of 1983. Today we call it the Turbo PAC. For over 30 years, Honeywell Personal Protective Equipment (PPE) has been a leader in developing innovative solutions to improve worker safety.

As a result, Honeywell has developed a new generation of apps for the next generation of workers.

The next generation of respiratory protection.

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Vote in the second-annual ASSE SAFETY Attendee Choice Awards!

Visit booth #534 to make your voice heard and recognize today’s most innovative and cutting-edge safety equipment!

More than 80 products will be featured on the exhibit floor in our second-annual ASSE Safety Attendee Choice Awards. Product categories include:

- AEDs/CPR
- Arc Flash Protection
- Cut-resistant Gloves
- Foot Protection
- Heat Stress
- Online Training
- Powered Safety Spectacles
- Signs, Labels and Tags
- Welding Helmets, and many more!

Voting runs each day of the expo and all category winners will be announced LIVE on-site the afternoon of June 10th!

VOTE at ASSE Safety BOOTH #543!
Questions & Comments
Keep In Touch!

• Send an email (Dave@SafetyAwakenings.com) if you know of a good safety app
• Visit SafetyAwakenings.com every Monday to see a new “Safety App Of The Week” review (upcoming – hearing testing apps)
• Favorites lists continually being updated
• Join my LinkedIn group “Free Safety Resources”
• Pick up a business card