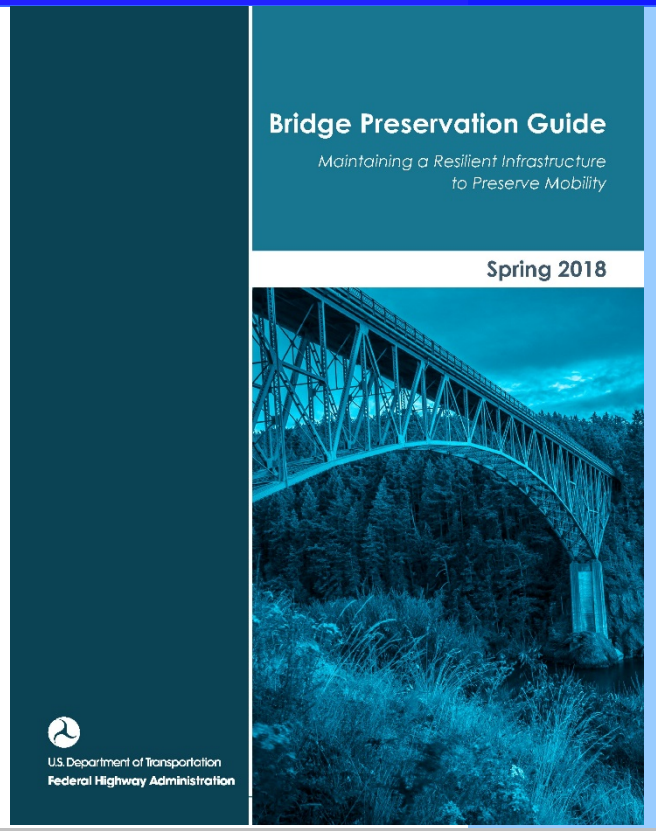
BUREAU of BRIDGES and STRUCTURES

SPANNING CONNECTING SAFELY EFFICIENTLY

Using the Products of the BPETG – Pocket Guides, Apps and Training Courses



2019 MWBPP - Bismarck

BUREAU of BRIDGES and STRUCTURES

FHWA Bridge Preservation Expert Task Group (BPETG)

Goals & Strategic Objectives

1. Provide information on cost-effective bridge preservation strategies
2. Communicate the benefits of including bridge preservation as a component of asset and performance management
3. Advise and assist in developing educational materials on bridge preservation
4. Foster a collaborative environment that encourages research and innovation

www.fhwa.dot.gov/bridge/preservation/

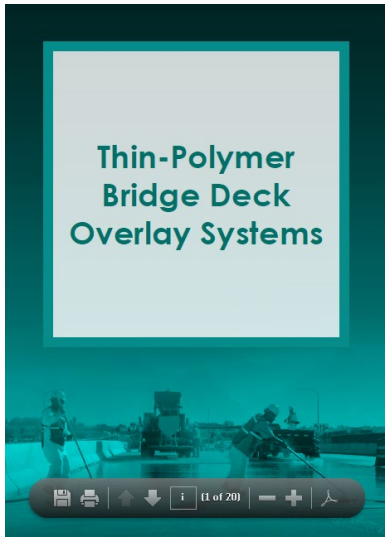
FHWA's Recent Activities Update

- Bridge Preservation Activities
  - What have we accomplished?
  - What's coming?

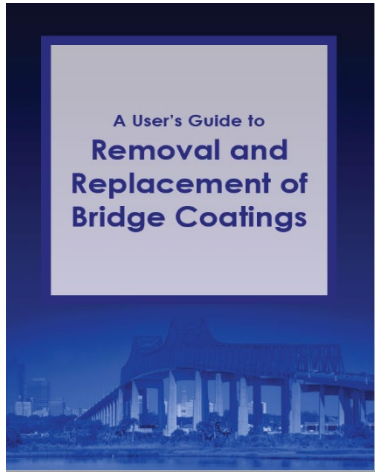
BUREAU of BRIDGES and STRUCTURES

Pocket Guides are also Smart Phone Apps

AASHTO TSP2 Web Page



Published by AASHTO TSP2/FHWA BPETG



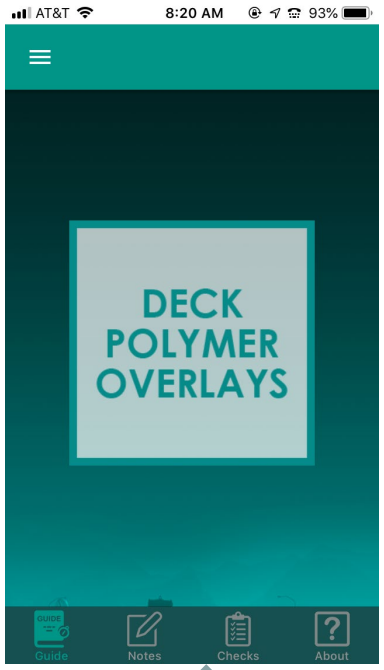
Published by AASHTO TSP2/FHWA BPETG

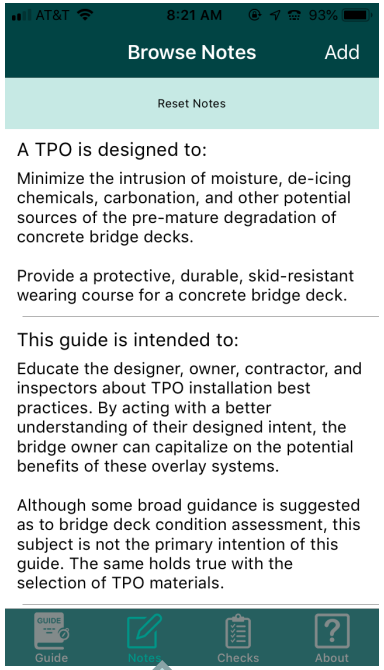
Download Smart Phone App:

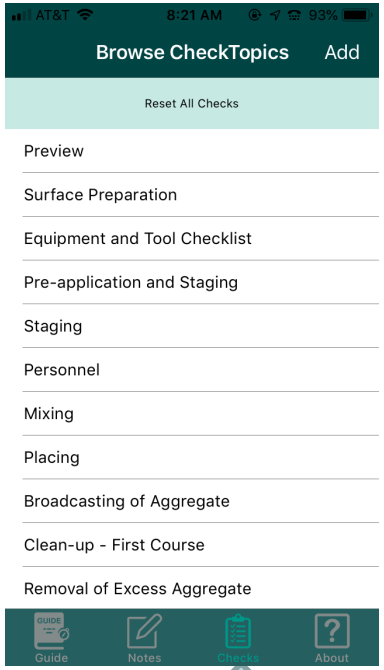
- "TPO Pocket Guide" – Thin Polymer Bridge Deck Overlay Systems
- "BC Pocket Guide" – Bridge Cleaning
- "RBC Pocket Guide" – Bridge Coatings

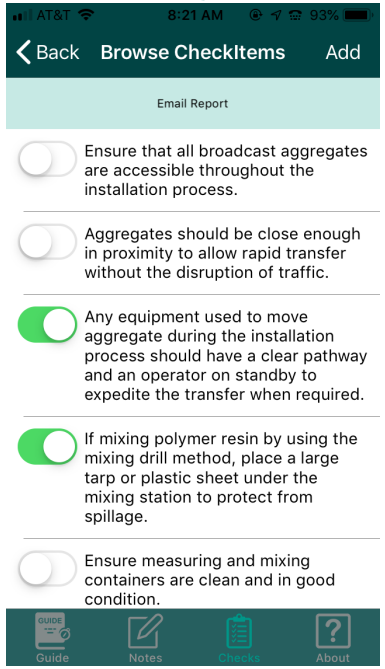
Pocket Guides are also Smart Phone Apps

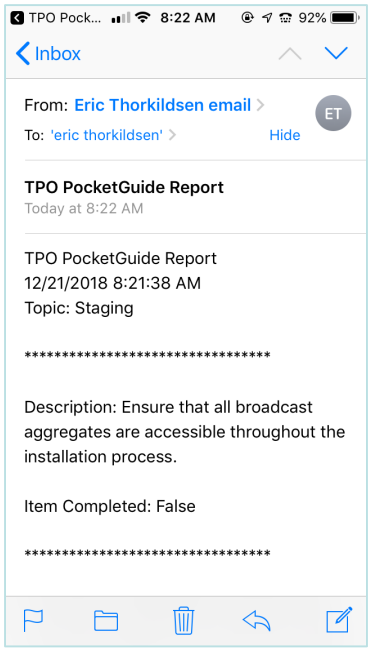
- PDF of Guide on App
- Notes
- Checklists
- Email Report



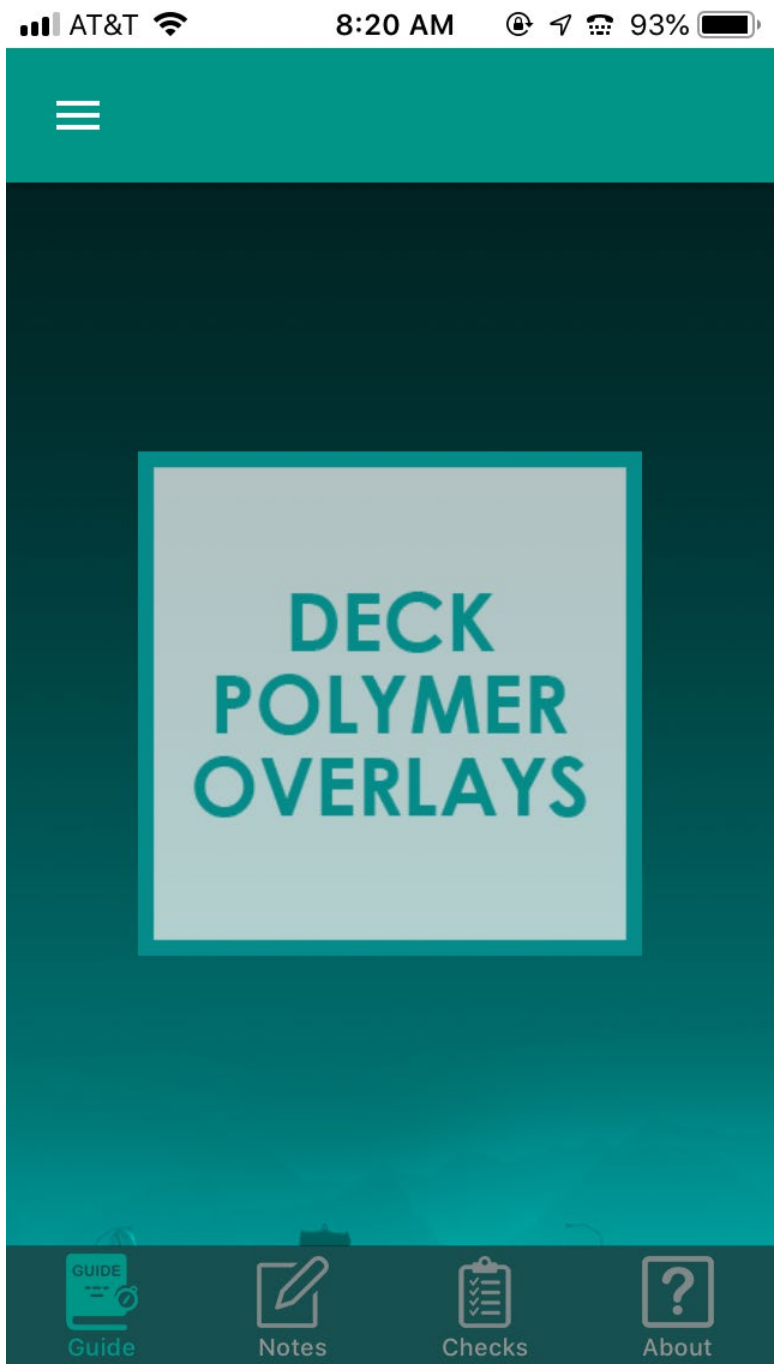








TPO APP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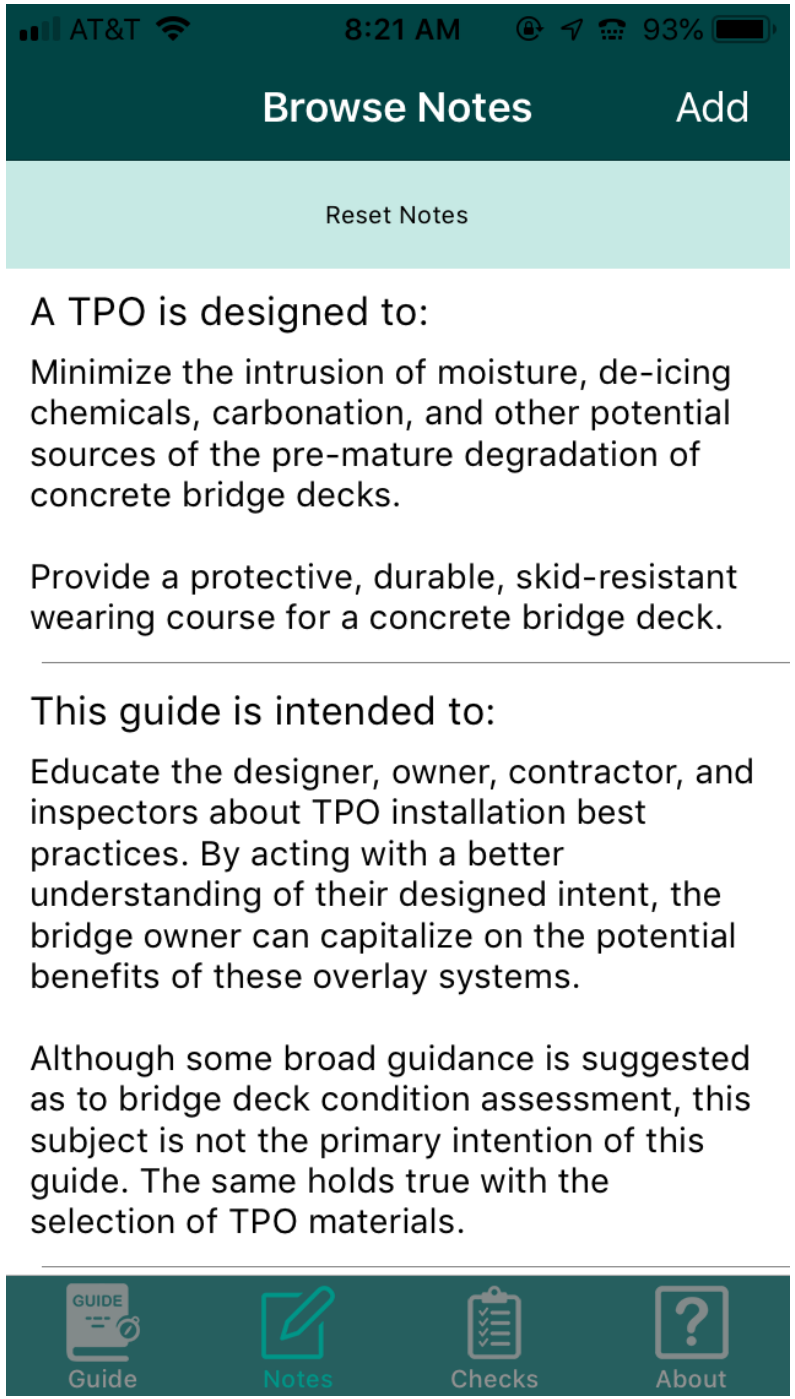
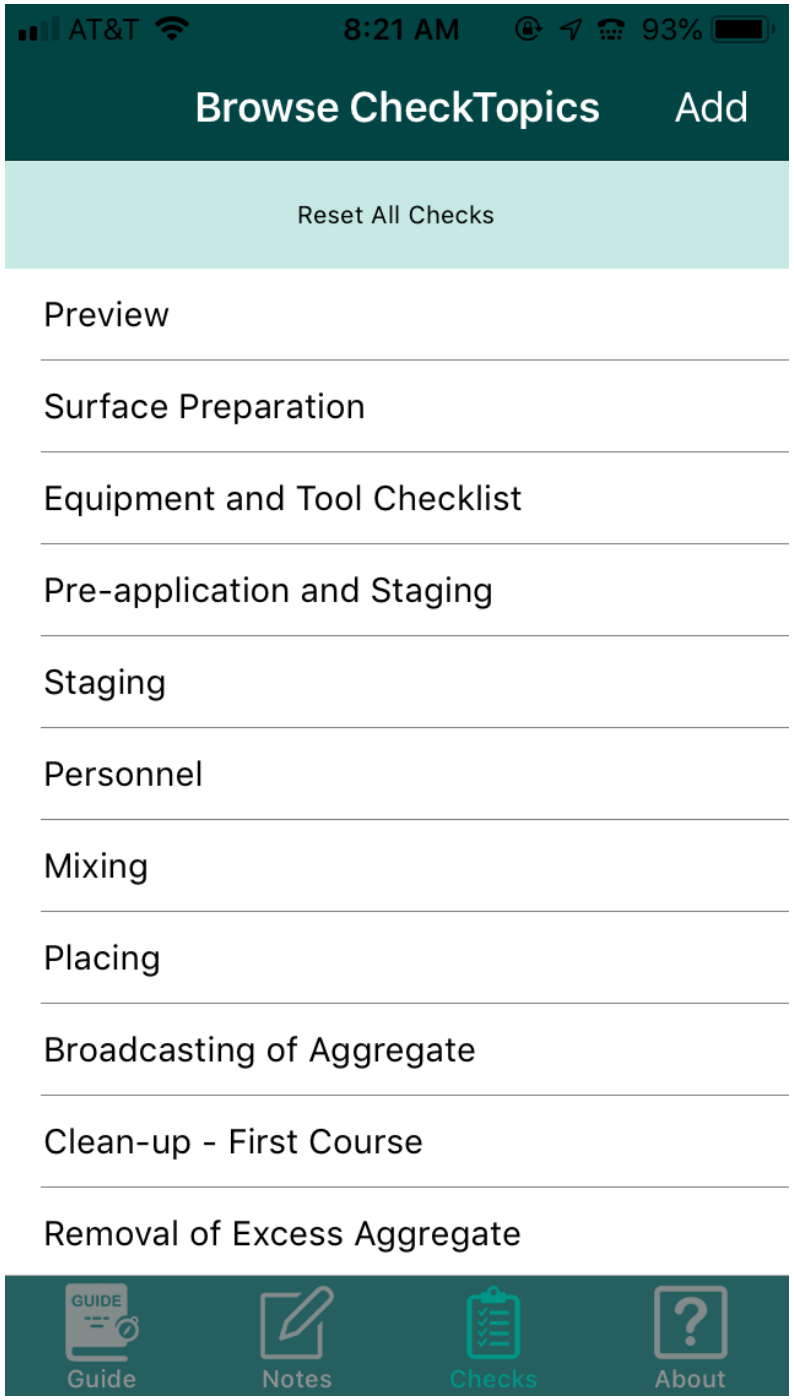
93%
DECK
POLYMER
OVERLAYS
GUIDE
Guide
Notes
Checks
About

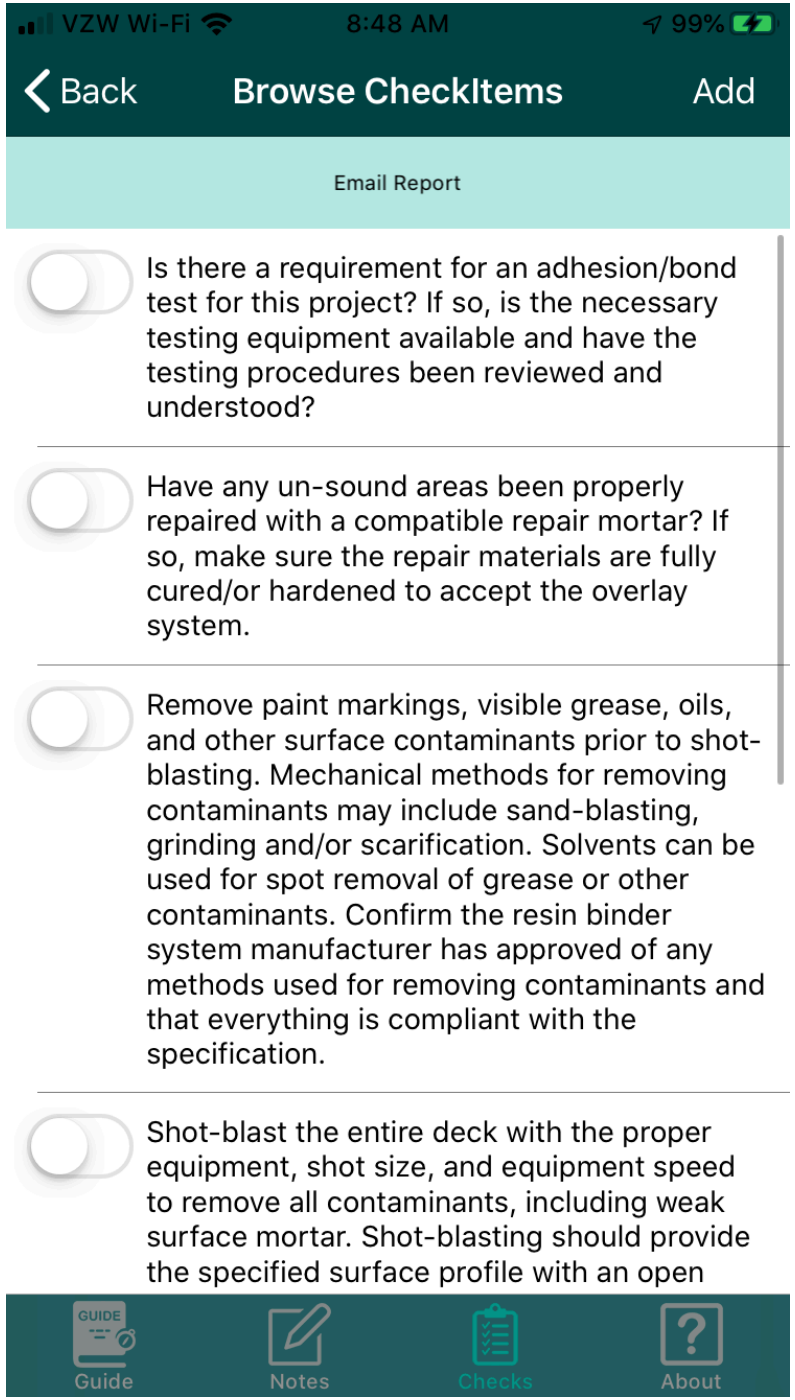
TPO APP


AT&T
8:21 AM
93%
Browse Notes
Add
Reset Notes
A TPO is designed to:
Minimize the intrusion of moisture, de-icing chemicals, carbonation, and other potential sources of the pre-mature degradation of concrete bridge decks.
Provide a protective, durable, skid-resistant wearing course for a concrete bridge deck.
This guide is intended to:
Educate the designer, owner, contractor, and inspectors about TPO installation best practices. By acting with a better understanding of their designed intent, the bridge owner can capitalize on the potential benefits of these overlay systems.
Although some broad guidance is suggested as to bridge deck condition assessment, this subject is not the primary intention of this guide. The same holds true with the selection of TPO materials.
GUIDE
Guide
Notes
Checks
About

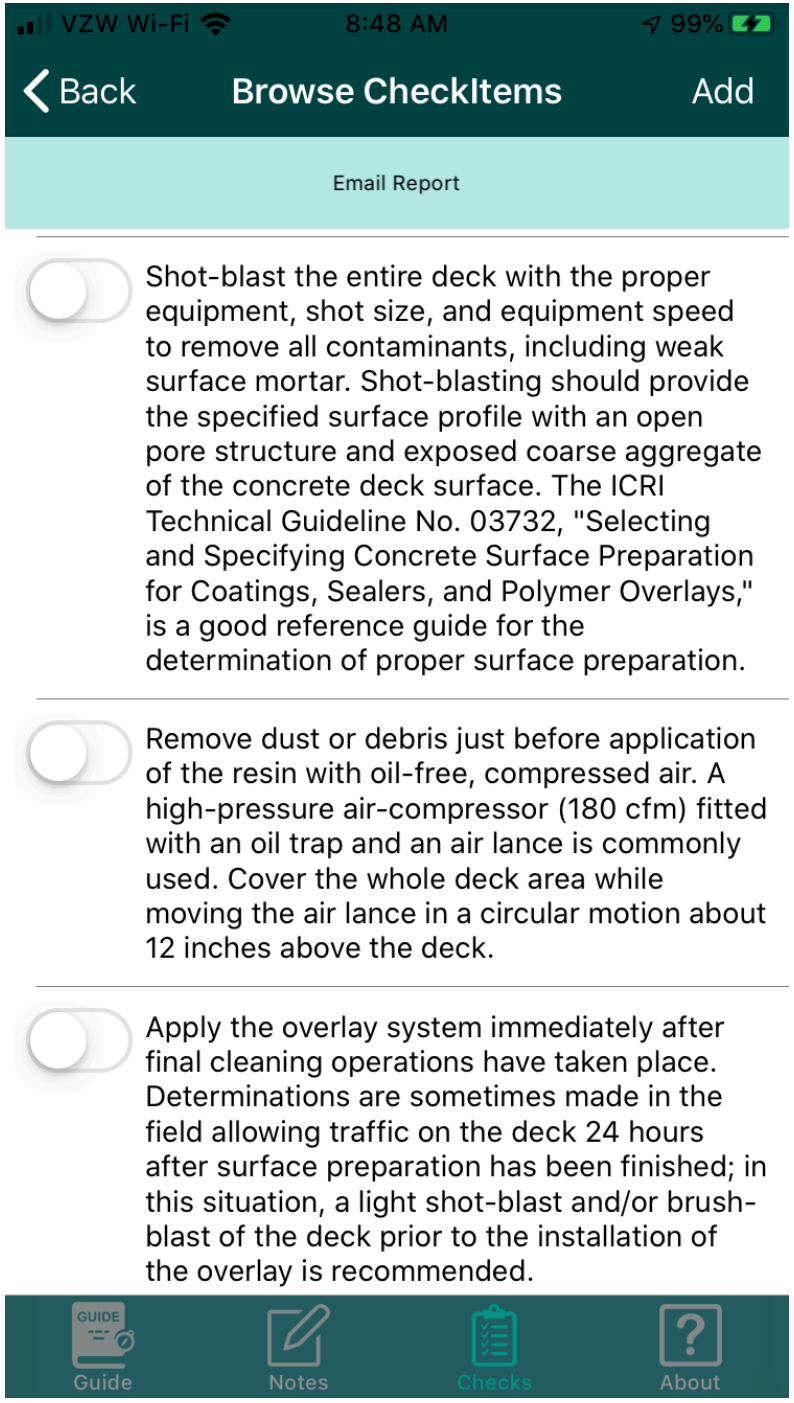
TPO APP


AT&T
8:21 AM
93%
Browse CheckTopics
Add
Reset All Checks
Preview
Surface Preparation
Equipment and Tool Checklist
Pre-application and Staging
Staging
Personnel
Mixing
Placing
Broadcasting of Aggregate
Clean-up - First Course
Removal of Excess Aggregate
GUIDE
Guide
Notes
Checks
About

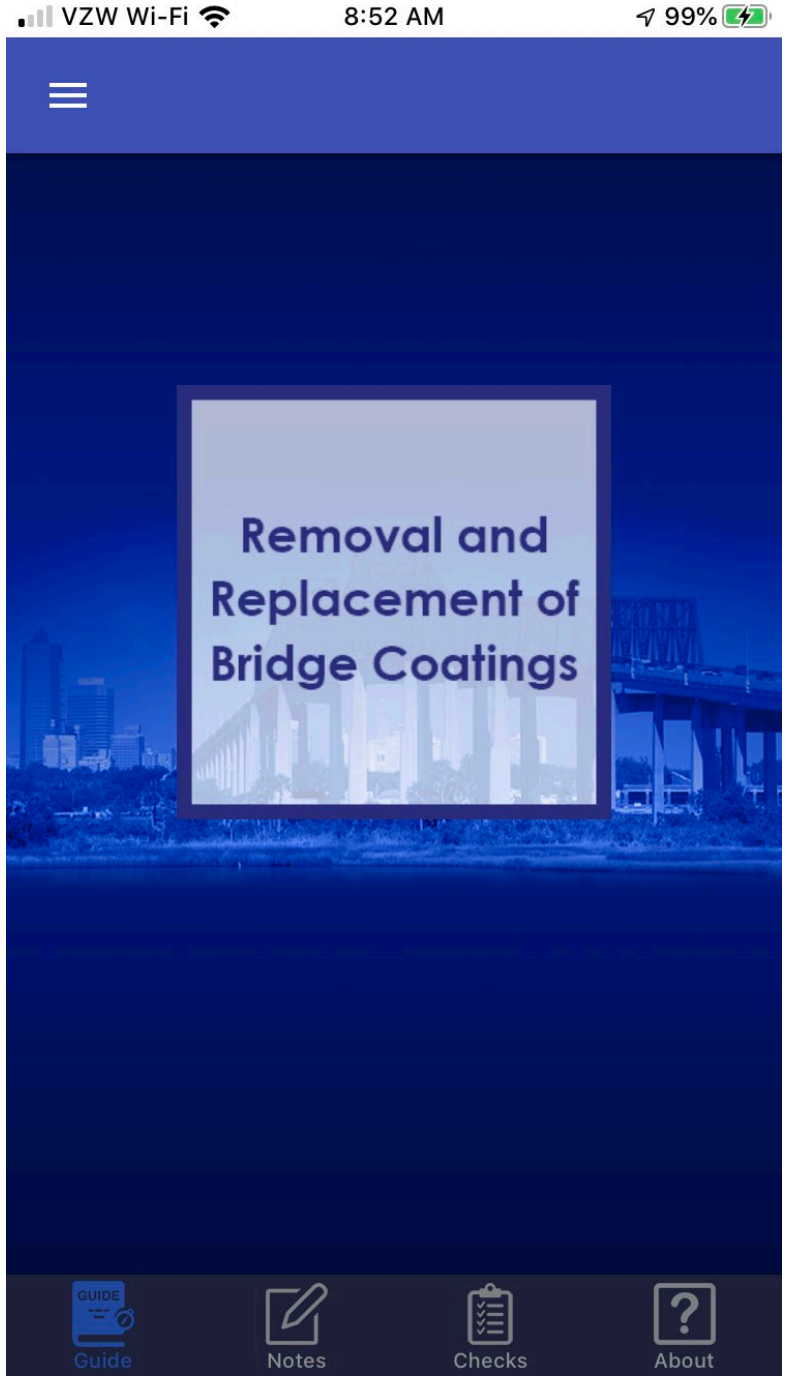
TPO Surface Prep Checklist



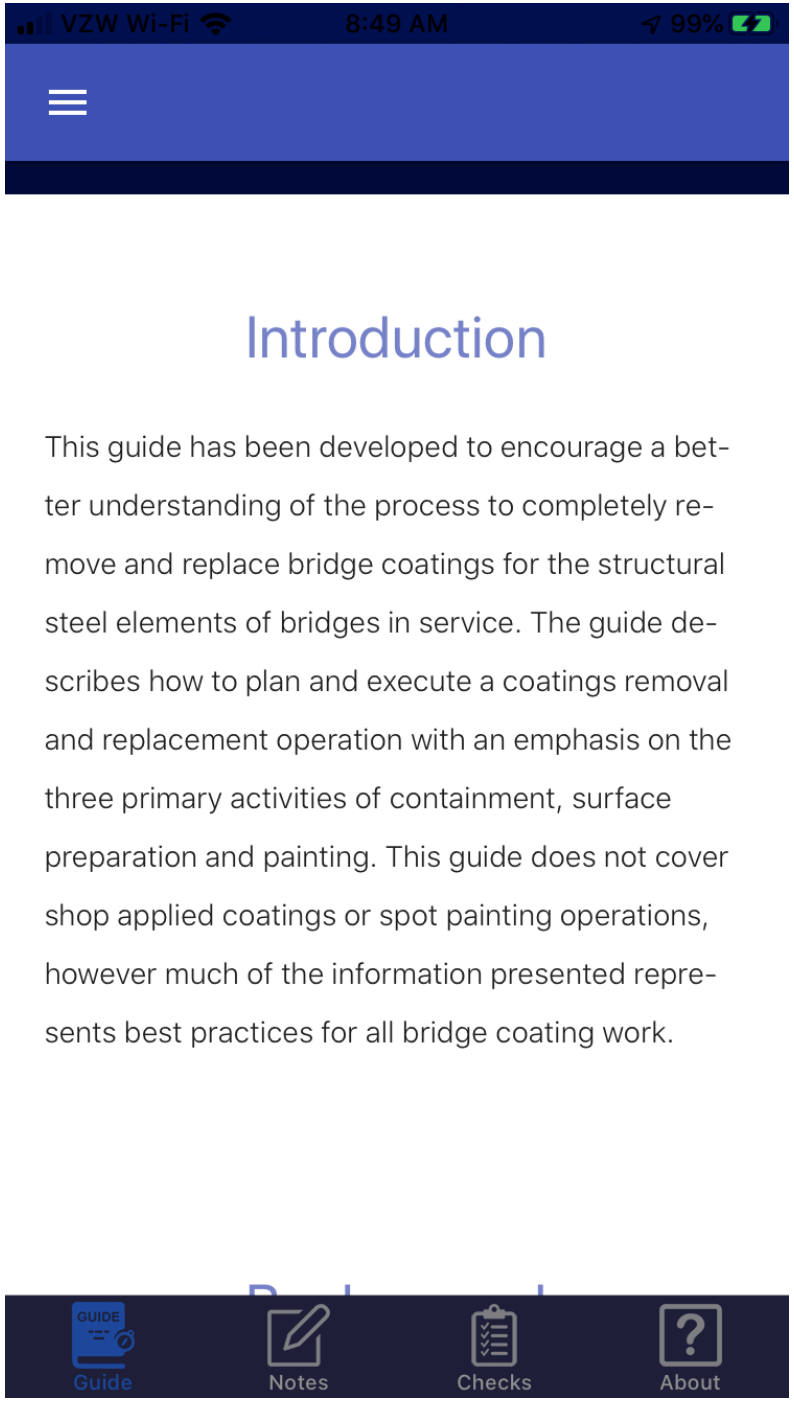
TPO Surface Prep Checklist



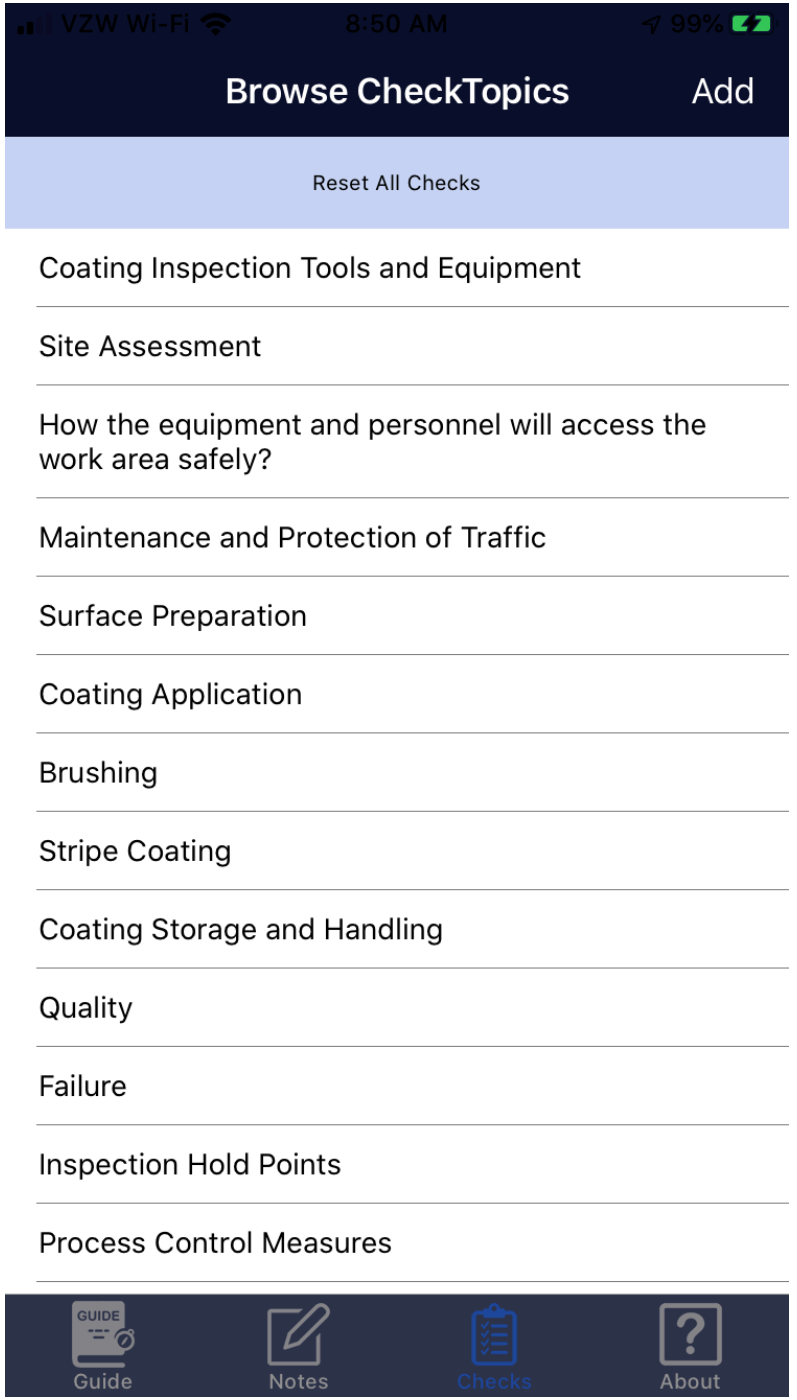
Bridge Coating App



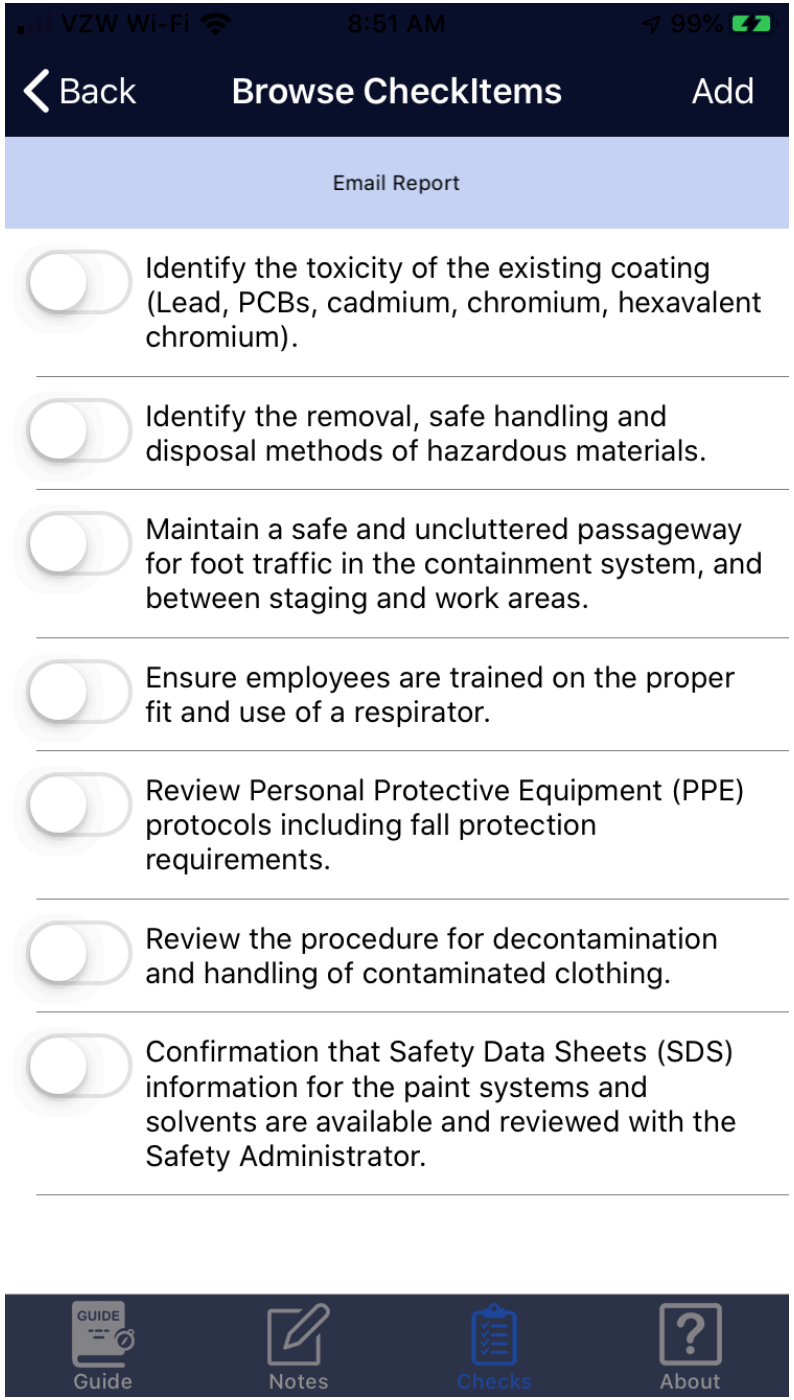
Bridge Coating Pocket Guide



Bridge Coating Checklists

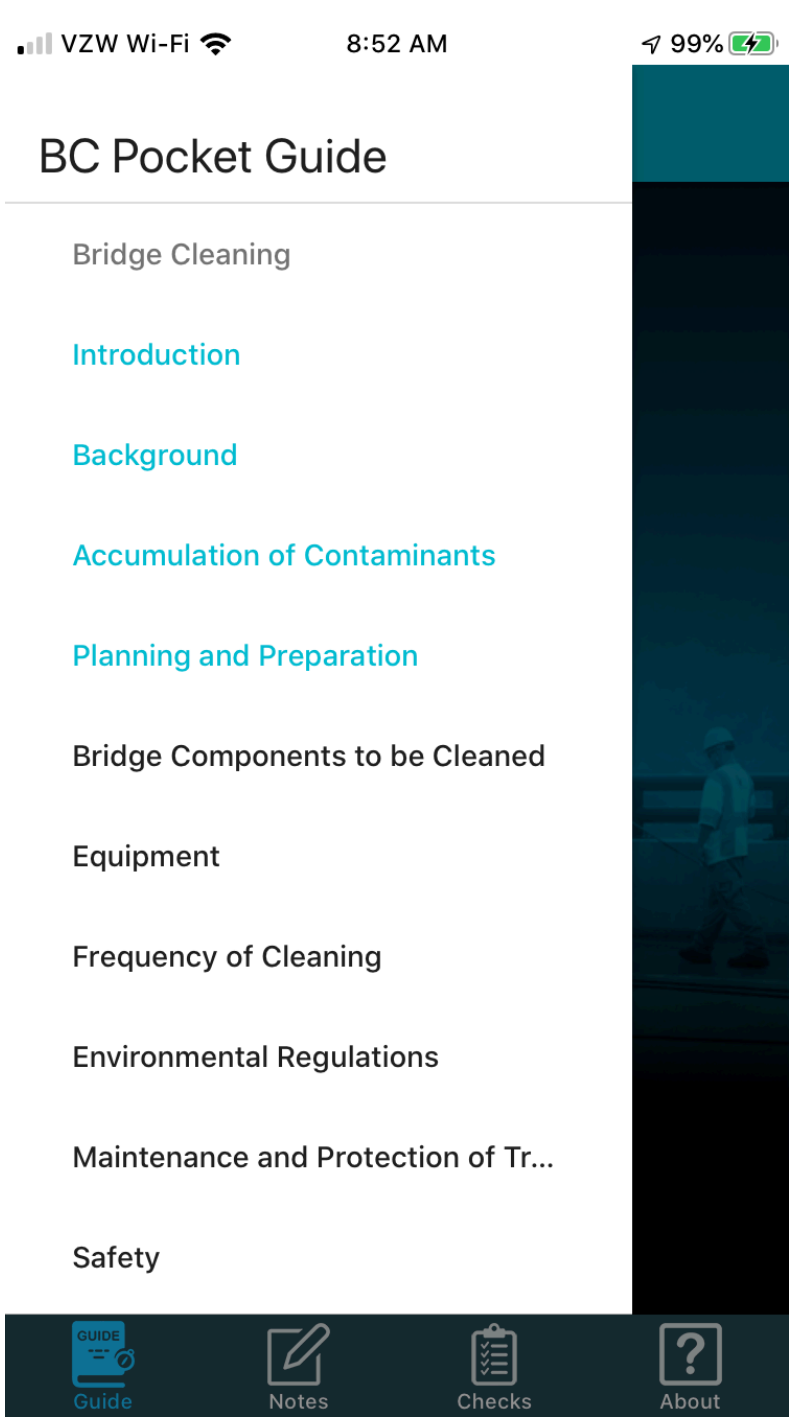


Bridge Coating Safety Checklist

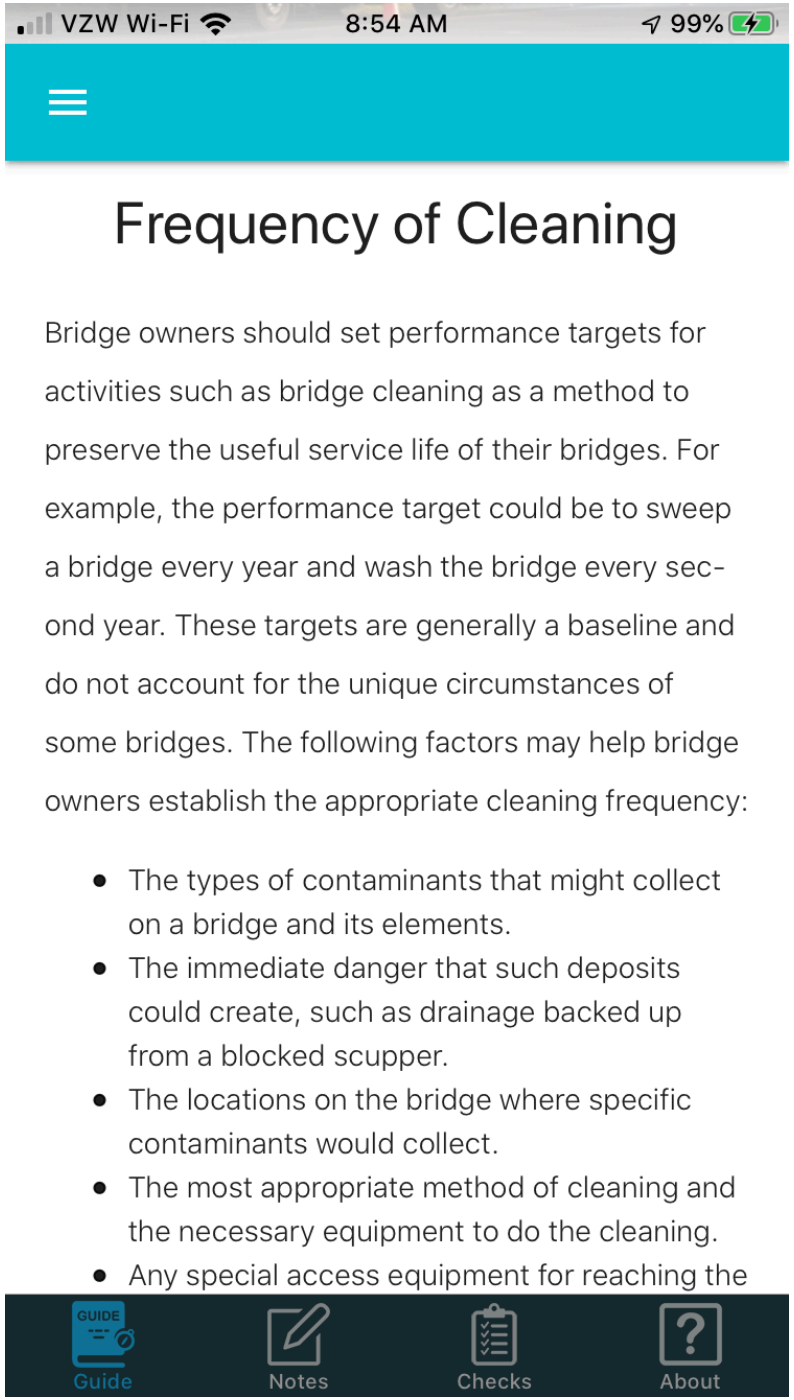


Bridge Cleaning APP

Bridge Cleaning Table of Contents

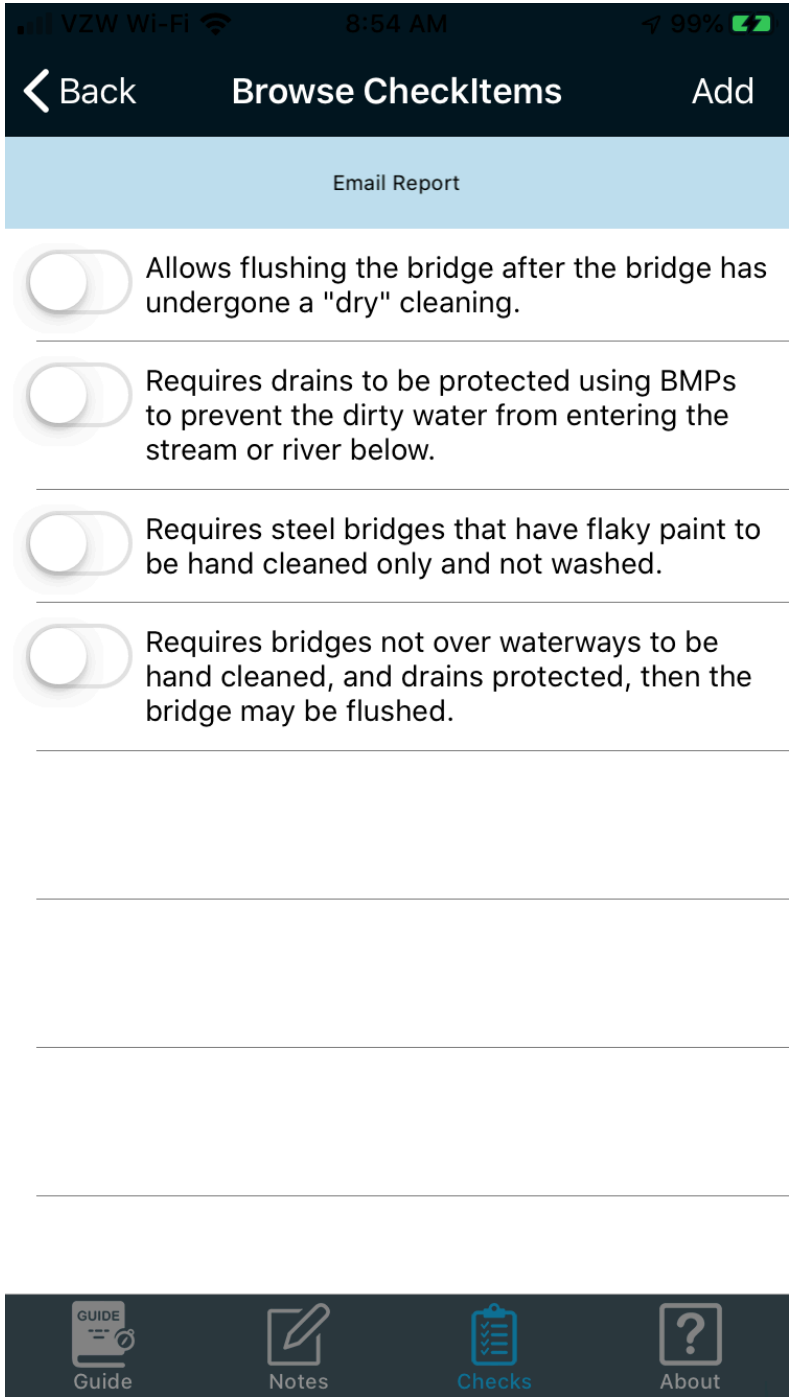


Bridge Cleaning Frequency

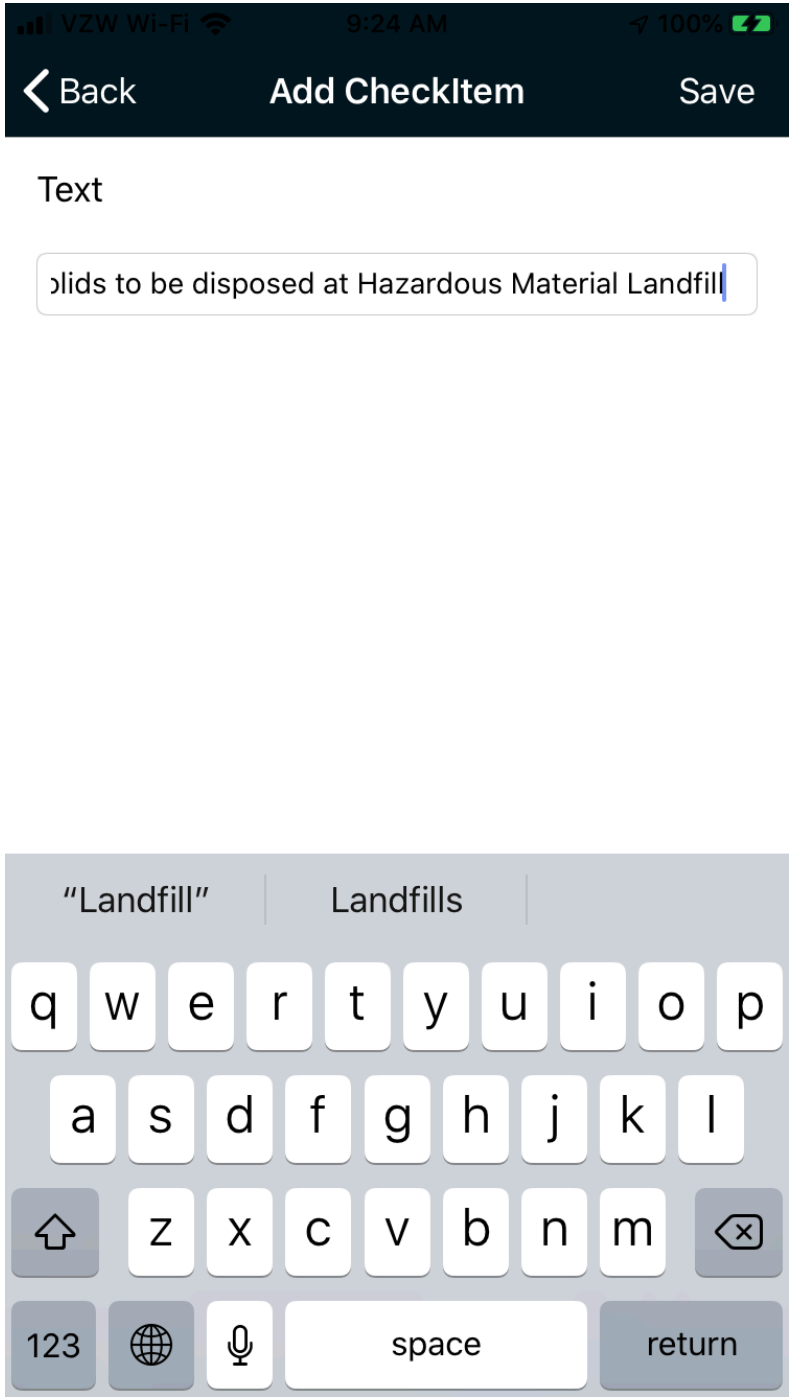


Bridge Cleaning Checklists

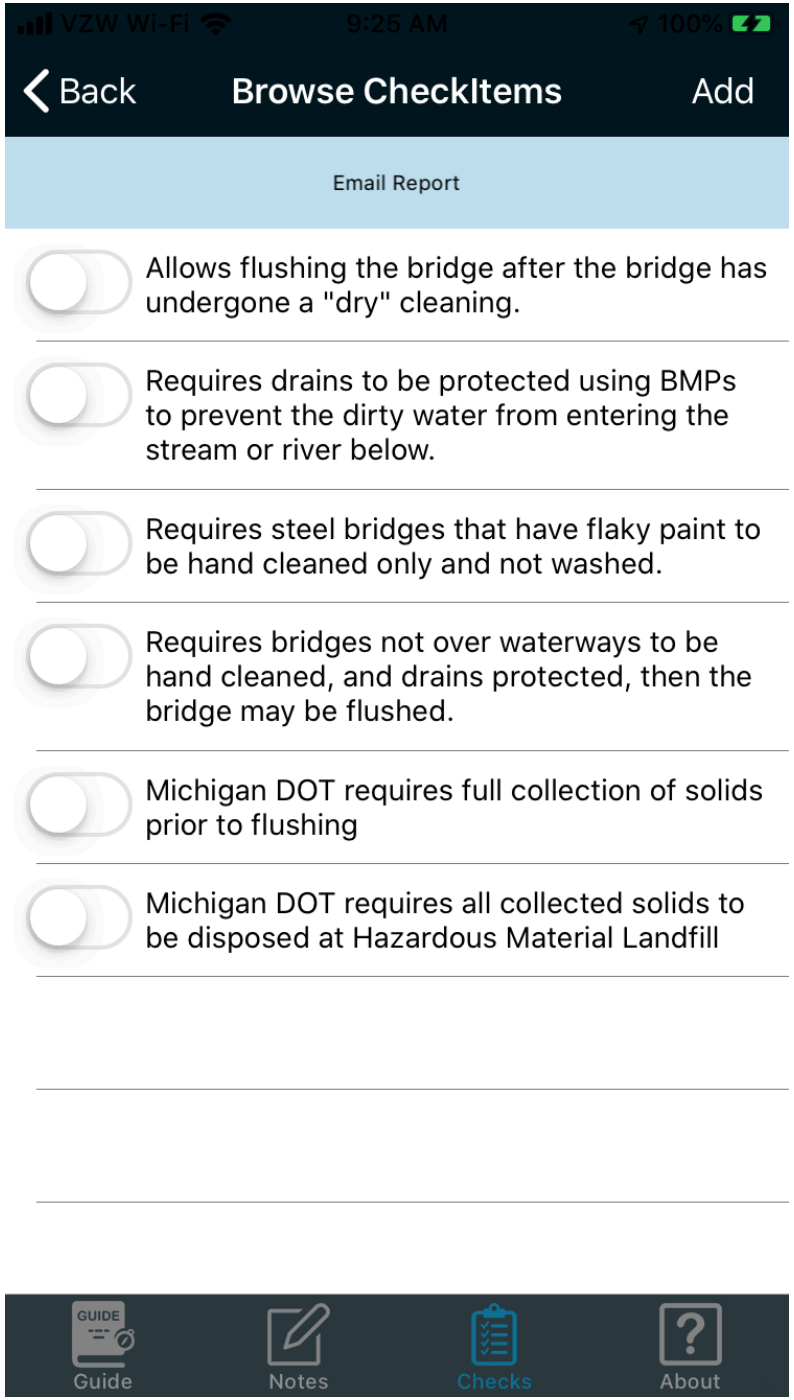
Bridge Cleaning Washington DOT Sample Environmental



Adding to Checklists



Adding to Checklists



Checklist Report

BC PocketGuide Report
10/15/2019 9:29:56 AM
Topic: Environmental Regulations(Washington State DOT example)

Description: Requires bridges not over waterways to be hand cleaned, and drains protected, then the bridge may be flushed.

Item Completed: False

****

Description: Michigan DOT requires all collected solids to be disposed at Hazardous Material Landfill

Item Completed: True

****

This report was generated using the BC PocketGuide App

Pocket Guides – Future Topics

- Spot, Zone and Overcoat Painting
- Deck Patching (In production)
- Concrete Substructure Repairs
- Concrete Superstructure Repairs
- Rigid Overlays
- Steel Superstructure Repairs
- Bearings: Clean, Reset and Grease
- Removing Channel Debris and Scour Repairs

AASHTO – TC3

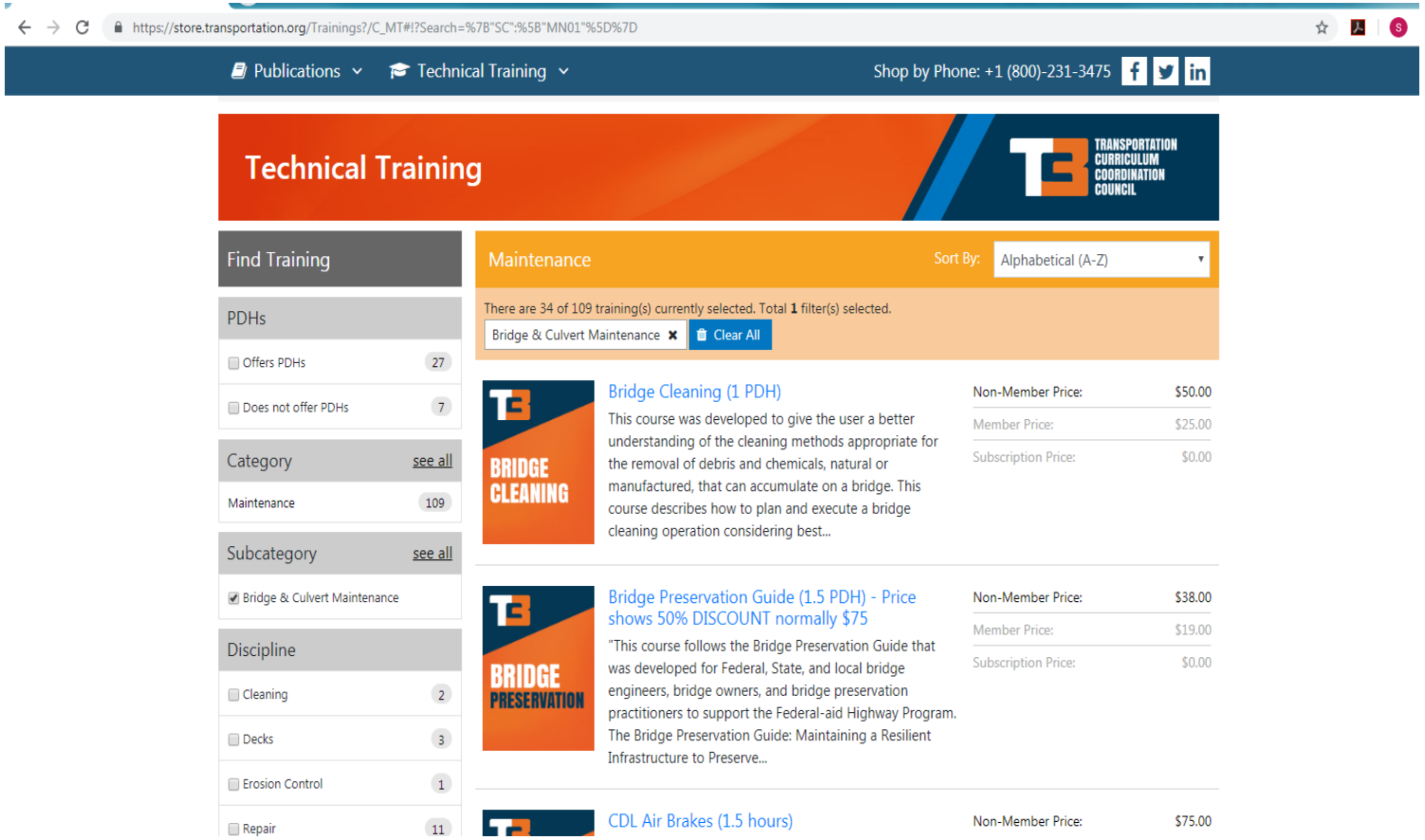
Formed an Alliance with AASHTO Transportation Curriculum Coordination Council (TC3)

- FHWA Bridge Preservation Guide –

Module 1 – Bridge Preservation Overview

Module 2 – How to start a Bridge Preservation Program?

- Bridge Cleaning
- Thin Polymer Overlays
- Bridge Coatings



AASHTO TC3 Web Page

Training (Web-based Microlearning Sessions)

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and STRUCTURES

Current Available Classes – AASHTO – TC3

- Bridge Cleaning (TC3MN037-19-T1 (1.0PDH))
- Bridge Preservation Guide (TC3MN036-19-T1 (1.5PDH))
- Removal and Replacement of Bridge Coatings (TC3MN039-19-T1 (1.0PDH))
- Thin-Polymer Bridge Deck Overlay Systems (TC3MN038-19-T1 (1.5PDH))

- TC3 Web Based Training are **Free** for employees of State DOT's that contribute annually to the TC3 Technical Service Program

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and STRUCTURES

Questions?