

**MDOT/ACEC Design Basic Training**  
**PBPD/DDSA**  
*(Performance Based Practical Design/Data Driven Safety Analysis)*  
Presented by: Mark Bott, (MDOT) and Jeff Bagdade, (Atkins Global)  
Module 1: September 28, October 6, 2021  
Module 2: October 20, October 27, 2021

**Module 1**

**September 28<sup>th</sup> or October 6<sup>th</sup>**

**10:00 a.m. – 11:30 a.m.**

Module 1 - What is Data Driven Safety Analysis

- Welcome
- Intro from MDOT to set the stage
- Intro to DDSA - What is DDSA; HSM vs traditional crash analysis vs systemic
- Intro to DDSA - examples
- Break
- The HSM - What is the HSM and how it works, HSM performance measures, and examples
- HSM examples
- Wrap-up

**Module 1: 1.5 CEHs**

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**Module 2**

**October 20<sup>th</sup> or October 27<sup>th</sup>**

**10:00 a.m. – 11:30 a.m.**

Module 2 – How to Apply the Michigan Safety Analysis Maps

- Welcome
- Intro from MDOT to set the stage
- Review from Module 1
- Michigan Safety Analysis Maps Background - Show what data is available and flow charts
- Break
- Michigan Safety Analysis Maps: Planning vs Project - Describe how to adjust to apply data from maps in project level analysis.
- Michigan Safety Analysis Maps Examples - Show multiple examples of how to convert data
- Wrap-up

**Module 2: 1.5 CEHs**

**Total for both Module 1 and 2: 3.0 CEHs**

**September 28<sup>th</sup> Session: [Module 1, Session 1](#)**

**October 6<sup>th</sup> Session: [Module 1, Session 2](#)**

**October 20<sup>th</sup> Session: [Module 2, Session 1](#)**

**October 27<sup>th</sup> Session: [Module 2, Session 2](#)**

**Design Basic Training wiki page: [DBT Wiki Page](#)**

**Design Basic Training resource email: [MDOT-DesignBasicTraining@michigan.gov](mailto:MDOT-DesignBasicTraining@michigan.gov)**

**Survey Link: [PBPD/DDSA Survey](#)**

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