



# **WSDOT**

# **Scour Workshop**

## **Module 1**

## **Introduction**

**May 30<sup>th</sup>, 2023**

# Introduction

- Instructor introductions
- Workshop objectives
- WSDOT scour certification
- Recommended resources and training
- The importance of review
- WSDOT Scour Q&A



# Instructors



# Workshop Objectives

- Provide an update of the WSDOT scour policies and procedures
- Interdisciplinary nature of water crossings
- Express the importance of collaboration between specialty support groups
- Present an overview of scour analysis procedures using WSDOT water crossing examples
- Highlight WSDOT's and FHWA's resources for computing scour
- Provide consistency in scour analyses for WSDOT water crossings
- Importance of review throughout design process

# WSDOT Scour Certification

- All scour analyses for WSDOT infrastructure will require a scour certification number (Starting January 1, 2024)
- Scour Certification will include the completion of the following:
  - WSDOT Scour Training Workshop modules
  - [FHWA Bridge Scour Workshop Recordings](#)
  - [NHI Course 135046 Stream Stability and Scour at Highway Bridges](#)
  - [NHI Course 135048 Countermeasures Design for Bridge Scour and Stream instability](#)
  - Pass WSDOT scour certification exam
- WSDOT Scour Certification Information [Hydraulics & hydrology training | WSDOT](#)

# Recommended Resources and Training

- WSDOT Hydraulics and Hydrology Training [Hydraulics & hydrology training | WSDOT](#)
- Training and Workshops include:
  - WSDOT Hydraulics Manual
  - WSDOT Highway Runoff Manual
  - WSDOT Fish Passage and Stream Restoration Design
  - MGSFlood
  - Stormshed3G
  - Various Q&As (e.g., FRA and Scour)
  - Various Templates (e.g., FRA, Project Complexity, LWM, Scour)

# Importance of Review

- Review of geomorphic, hydrologic and hydraulic analysis is essential to an accurate scour analysis
- Module 11 provides detail on WSDOT scour analysis review

