

**COURSE NUMBER**

FHWA-NHI-134206

**COURSE TITLE****Rockfall Stabilization**

This training was developed by the Transportation Curriculum Coordination Council (TCCC) in partnership with AASHTO and NHI. This course will introduce the key concepts in rockfall stabilization, including tools and methods used in stabilization and reinforcement. The purpose of this course is to familiarize the construction inspector with current techniques utilized in stabilizing rock slopes with respect to rockfall. This course contains six modules:

Module 1: Introduction

Module 2: Scaling

Module 3: Rock Reinforcement and Drainage

Module 4: Surface Stabilization

Module 5: Rockfall Containment Systems on Slope

Module 6: Rockfall Barriers Along Edge of Road

OUTCOMES

Upon completion of the course, participants will be able to:

- Describe scaling methods and techniques
- Identify and explain reinforcement strategies and the need for drainage
- Describe surface stabilization methods
- Identify and explain different types of rockfall containment systems and barriers
- Identify hand scaling, mechanical scaling, and trim blasting and describe the tools that are used
- Explain typical types of rock reinforcement and how they work
- Explain horizontal drains and grouting
- Explain the types of rock reinforcement testing
- Describe and identify types of surface stabilization
- Describe the application of wet-mix and dry-mix shotcrete
- Identify and explain high tensile strength wire mesh, draped wire mesh, and cable net
- Identify and explain mid-slope attenuator fences and flexible rockfall fences

TARGET AUDIENCE

Federal, State, and local highway agency employees and consultant personnel who are involved in the stabilization of rock slopes, as well as construction inspectors responsible for rockfall stabilization, may benefit from this course.

TRAINING LEVEL: Basic**FEE:** 2016: \$50 Per Person; 2017: N/A**LENGTH:** 4 HOURS (CEU: 0 UNITS)**CLASS SIZE:** MINIMUM: 1; MAXIMUM: 1**NHI Customer Service:** (877) 558-6873 • nhicustomerservice@dot.gov