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## **DECEMBER 11 | 8:30 – 12:00 “BRIDGE INSPECTION”**

This 3.5 hour class teaches fundamental visual inspection techniques and reviews the background knowledge necessary to understand how bridges function. It addresses proper condition and appraisal rating practices and reviews the professional obligation of bridge inspectors. This interactive block of instruction reviews the components of a bridge inspection report and how to properly interpret the report. It includes a virtual bridge inspection classroom exercise.

## **DECEMBER 11 | 1:00 – 4:30 “BRIDGE MAINTENANCE ”**

Transportation agencies are faced with significant challenges maintaining their roadway systems, including those associated with bridges. Timely preventative maintenance and preservation activities are necessary to ensure the proper performance of bridges. This 3.5-hour class explains the role of the bridge maintenance unit and the cost effective maintenance and preservation activities they perform. It touches on the fundamentals of bridge mechanics and behaviors while reviewing fundamental steps involved in using concrete as a repair material.

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## **DECEMBER 12 | 8:30 – 12:00 “MAINTENANCE ADMINISTRATION (MANAGEMENT)”**

The fundamental focus of a maintenance management system is to manage routine maintenance and operations for transportation systems. It also provides necessary business processes to manage assets. The goal of proper maintenance management is to achieve a safe, efficient and convenient transportation system that supports the needs of the road users. Students will develop a knowledge base of planning, scheduling, quality control, asset management and performance improvement during this 3.5 hour inter-active block of training.

## **DECEMBER 12 | 1:00 – 4:30 “DEVELOPING OPERATIONAL BUDGETS AND ALLOCATIONS”**

Transportation agencies have the responsibility and challenge to maintain, preserve and improve infrastructure assets for current and future generations. This 3.5 hour class will introduce participants to basic budget fundamentals and how to manage, track and allocate the funds throughout the budget cycle. At the conclusion of the course, the participants will have a better understanding of their agency’s budgeting process.

**DECEMBER 13 | 8:30 – 12:00 “SIGN MAINTENANCE AND MANAGEMENT”**

Traffic signs are critical elements of the roadway because they communicate the rules, warnings, guidance and other information that drivers need to safely and efficiently navigate roads and streets. This 3.5-hour session helps the student learn best practices for managing sign inventory and properly maintaining them. Pavement markings are also addressed in this class. Maintenance, repair and replacement of signs, materials, and supports is addressed.

**DECEMBER 13 | 1:00 – 4:30 “GUARDRAIL INSTALLATION, MAINTENANCE AND REPAIR”**

Guardrails are an important safety countermeasure, protecting motorists from serious injury if they leave the roadway. This 3.5-hour class provides instruction on the principles and practices of guardrail installation maintenance and performance. The class will address features necessary to provide the best likelihood for good performance for metal guardrail standard systems and their end treatments, as well as length of need (including a field expedient procedure) and guardrail transitions.

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**DECEMBER 14 | 8:30 – 12:00 “ELEVATION AND GRADE INSTRUMENTS AND USE”**

This construction stake-out class familiarizes students with surveying instruments while teaching them how to set up a level and read a rod in order to establish elevations. It includes basic math needed for conversions. Students will learn how to read roadway/grading plans. They will also learn the proper techniques for staking out horizontal and vertical controls, alignments, establishing grades and flow lines while learning proper note keeping practices. This 3.5-hour class combines lecture with group discussion and practical exercises.

**DECEMBER 14 | 1:00 – 4:30 “WINTER WEATHER OPERATIONS”**

This 3.5-hour class provides an overview of key snow-fighter strategies to keep roads safe and passable during winter weather events, including weather forecasting resources and seasonal planning. Across the country, wintry weather conditions significantly increase crash risks, accounting for nearly 25% of weather-related vehicle accidents. It is critical for road supervisors, maintenance personnel and equipment operators, whether novice or experienced, to be up-to-date on equipment, new techniques and seasonal challenges.

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**TTAP brings transportation training your way. This highly interactive training combines lecture with group discussions and practical exercises.**

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| <input type="checkbox"/> Bridge Inspection          | <input type="checkbox"/> Sign Maintenance and Management   |
| <input type="checkbox"/> Bridge Maintenance         | <input type="checkbox"/> Guardrail Installation and Repair |
| <input type="checkbox"/> Maintenance Administration | <input type="checkbox"/> Elevation and Grade Instruments   |
| <input type="checkbox"/> Developing Budgets         | <input type="checkbox"/> Winter Weather Operations         |

To register: Check beside the classes you would like to attend. Email this form to James Bailey at [james.ttap@virginia.edu](mailto:james.ttap@virginia.edu) or call 833-484-9944 or visit [ttap.enrollware.com](http://ttap.enrollware.com)

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