


****Note that this form is to be kept up to date regularly (at least every quarter). Safe-D administrators may access your form on your Project Site at any time and pull for information reported to USDOT OST-R, use information for internal or external reports or presentations, etc.**

Date of Last Update (edit each time): 12/21/2017

UTC Project Information	
Project Title	Emerging Communications Training
University	Virginia Tech
Principal Investigator	Mike Mollenhauer
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Funding Source(s) and Amounts Provided (by each agency or organization)	Safe-D (Federal): \$10,000 VDOT/VTRC match source (Non-Federal): \$15,000
Total Project Cost	\$25,000
Agency ID or Contract Number	Grant No: 69A3551747115 Project: 06-008
Start and End Dates	11/25/2021 – 06/30/2022
Brief Description of Research Project	As new intelligent transportation systems (ITS) and vehicle-to-everything (V2X) communication systems and protocols continue to emerge, additional training on those systems and protocols is needed for personnel working in the transportation sector. The Virginia Department of Transportation (VDOT) has already created a training program focusing on general topics pertaining to connected and automated vehicles (CAVs), and they have recently identified a need for a more specific program focusing on communication technologies as they relate to CAVs. To address this need, VTTI plans to develop a 60-minute training course that includes a narrated PowerPoint presentation in conjunction with learning assessments. This training will cover high-level overviews of various types of communications, main use cases for each type of communication, vocabulary, and key protocols currently being utilized by industry owner-operators (IOOs), original equipment manufacturers (OEMs) and industry technology providers.
Describe Implementation of Research Outcomes (or why not implemented)	<ul style="list-style-type: none"> • 60-minute communication training course • Final report • Graduate course materials
Place Any Photos Here	

	
<p>Impacts/Benefits of Implementation (actual, not anticipated)</p>	<p>As new communications systems emerge, personnel in the transportation sector need training on the applicable protocols, functionality, and limitations of those systems. It is critical that transportation departments have access to adequate training to maintain existing systems, plan for future implementation efforts, and ensure continued safety and security throughout the use of those systems.</p>
<p>Web Links</p> <ul style="list-style-type: none">• Reports• Project website	<p>Safe-D SharePoint Site Safe-D Public Site</p>