

<b>UTC Project Information</b>	
Project Title	Driver Training for Automated Vehicle Technology
University	Texas A&M Transportation Institute
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Funding Source(s) and Amounts Provided (by each agency or organization)	Safe-D (Federal): \$276,034 Match (Non-Federal): \$151,857
Total Project Cost	\$427,891
Agency ID or Contract Number	Grant No: 69A3551747115 Project: 01-004
Start and End Dates	March 16, 2017 – November 30, 2018
Brief Description of Research Project	The goal of the current work is to develop training protocol guidelines that can be used by automated vehicle trainers to optimize overall system use and transportation safety. This will be accomplished by first developing a taxonomy of the knowledge and skills required to operate NHTSA L2 and L3 automated vehicles. Two human subjects-based evaluations of 'human factors' issues relative to automation and training will then be conducted using the taxonomy to inform the selection of study variables. The first study will compare three training programs on knowledge and driving skill for NHTSA level 2 and 3 automation in both low and high-risk driving scenarios in a driving simulation environment. Based on these results, an 'in situ' training program will be developed and tested on the VTTI Smart Road, to assess whether drivers can be trained to use L2 and L3 systems while driving these vehicles.
Describe Implementation of Research Outcomes (or why not implemented)  Place Any Photos Here	The primary project output will consist of guidelines for training drivers using automated systems. The guidelines will maximize "ease of use" and dissemination by mirroring the format of existing automated vehicle guidelines. The guidelines will detail the knowledge and skills that should be addressed within automated vehicles training programs, critical characteristics of automated systems user interface design, and examples of practical real-world training programs that could be implemented by OEMs within the vehicles. Guidelines will be sent to the professional organizations such as ADTSEA, AAAFTS, and AAMVA which were engaged during the guidelines development task. In addition, the research team will disseminate the guidelines through professional presentations and online webinars described below.

Impacts/Benefits of Implementation (actual, not anticipated)	Project results will provide guidance to automated vehicle technology trainers regarding specific training protocols to employ to maximize driver performance and safety.
Web Links <ul style="list-style-type: none"><li>• Reports</li><li>• Project website</li></ul>	<a href="http://www.vtti.vt.edu/utc/safe-d/index.php/projects/driver-training-for-automated-vehicle-technology/">http://www.vtti.vt.edu/utc/safe-d/index.php/projects/driver-training-for-automated-vehicle-technology/</a>