



WEBINAR INVITATION

Intelligent Transportation Systems (ITS) Professional Capacity Building Program Year 4

On behalf of the Institute of Transportation Engineers and the U.S. Department of Transportation, Office of the Assistant Secretary for Research and Technology, we would like to invite you to attend the ITS standards training web pilots for the ITS Professional Capacity Building Program.

The web pilot is part of testing the module's development, and is meant to capture your input to improve the product before finalization.

Register for free for any or all of the following modules, and take part in shaping our ITS Standards training modules by providing your feedback and earning professional development hours!



Browse through the module descriptions and register below!

Bundle 1 **Webinar Pilots**

Module A311a (Update)

Understanding User Needs for DMS
Systems based on NTCIP 1203
Standard v03

Module T304

Applying Your Test Plan to the FMS-
Part 1 Signal System Masters based
on NTCIP 1210 Standard v01

Module A306a (Update)

Understanding User Needs for
Electrical and Lighting Management
Systems based on NTCIP 1213 ELMS
Standard v03

Module CV271

Using the ISO TS 19091 Standard to
implement V2I Intersection
Applications Introduction

Module A311a (Update): Understanding User Needs for DMS Systems based on NTCIP 1203 Standard v03

Register: [Online Here!](#)

Date: November 15th, 2016

Time: 12:00 p.m. – 2:00 p.m. EST

Module Description

The purpose of this updated module is to incorporate necessary changes made by the updated NTCIP standard v03 (from v02), and assists technical staff in writing unambiguous, complete, and well-written user needs based on NTCIP 1213 Standard v03.

This module provides participants with information on how to identify the appropriate use of the NTCIP 1213 Standard v03 and acquire a DMS system based on what the user is seeking to accomplish; and also provides participants with information on how to identify user needs that can be traced to requirements, which will be discussed in A306b: Specifying Requirements for DMS Systems based on NTCIP 1213 Standard v03, with support from tools and resources such as Requirements Traceability Matrix (RTM) and Protocol Requirements List (PRL) in following a Systems Engineering (SE) Process. An updated final module, T311, will deal with the preparing and applying of testing documentation for DMS based on NTCIP 1203 Standard v03.

Learning Objectives

1. Review the structure of the DMS standard.
2. Identify specific DMS operational needs.
3. Describe the purpose of the Protocol Requirements List (PRL) Matrix and Benefits.
4. Discuss how to prepare a project level PRL with user needs and their associated requirements.

Instructor



Raman Patel, Ph.D., P.E.

President
RK Patel Associates, Inc.
New York City, NY, USA



Module T304: Applying Your Test Plan to the FMS-Part 1 Signal System Masters based on NTCIP 1210 Standard v01

Register: [Online Here!](#)

Date: November 17th, 2016

Time: 12:00 p.m. – 2:00 p.m. EST

Module Description

This module will help users leverage their NTCIP 1210 v01 based specifications to produce and apply a sample test plan, including test design specifications, test case specifications and test procedure specifications for SSM. Thus, the development of clear and unambiguous NTCIP 1210 v01 based testing documentation can be used by system developers and integrators during procurement specifications preparation, system acceptance and ongoing maintenance efforts. The module will guide agencies in verifying that delivered products conform to NTCIP standards and comply with the agency's specifications.

Learning Objectives

1. Describe within the context of the systems life cycle the role of a test plan and testing to be undertaken.
2. Recognize the purpose, structure, and content of well-written test documentation for SSM based on IEEE 829-2008 formats.
3. Explain how to develop the complete test documentation package for an SSM specification based on NTCIP 1210 Standard v01.
4. Describe the testing of an SSM using sample test documentation.

Instructor



Raman Patel, Ph.D., P.E.

President
RK Patel Associates, Inc.
New York City, NY, USA



Module A306a (Update): Understanding User Needs for Electrical and Lighting Management Systems based on NTCIP 1213 ELMS Standard v03

Register: [Online Here!](#)

Date: November 21st, 2016

Time: 12:00 p.m. – 2:00 p.m. EST

Module Description

The purpose of this updated module is to incorporate necessary changes resulting from new user needs and capabilities such as connected vehicles, SMART Grid, and others included in the updated NTCIP 1213 standard v03 (from v02). It also assists technical staff in writing unambiguous, complete, and well-written user needs based on the NTCIP 1213 Standard v03.

This module provides participants with information on how to identify the appropriate use of the NTCIP 1213 standard and acquire an ELMS system based on what the user is seeking to accomplish; and provides participants with information on how to identify user needs that can then be traced to the requirements, which will be discussed in A306b: Specifying Requirements for ELMS Based on NTCIP 1213 Standard v03, with support from tools and resources such as a Requirements Traceability Matrix (RTM) and Protocol Requirements List (PRL) in following a Systems Engineering (SE) Process. A final module, T306, will deal with the preparation of testing documentation for ELMS.

Learning Objectives

1. Understand the structure of the NTCIP 1213 v03 standard.
2. Identify specific ELMS user needs.
3. User the protocol requirements list (PRL) to select the user needs and trace them to requirements.
4. Explain how to use the PRL table for the ELMS Specification.

Instructor



James J. Frazer

President
Gridaptive Technologies
Pompano Beach, FL, USA



Module CV271: Using the ISO TS 19091 Standard to Implement V2I Intersection Applications Introduction

Register: [Online Here!](#)

Date: December 2nd, 2016

Time: 12:00 p.m. – 2:00 p.m. EST

Module Description

The purpose of this module is to introduce ISO TS 19091 specification and its relationship with other connected vehicle standards. This module will provide participants with an introduction to the ISO Technical Specification (TS) 19091, intelligent transport systems—Cooperative ITS—using V2I and V2V communications for applications related to signalized intersections.

The module describes the structure of the specification, presents the use cases addressed by the specification, then introduces how to use the standard to deploy a standards-based application for signalized intersections. This module helps the participant understand the scope of the ISO TS 19091 specification and describes how implementers can use this specification to implement standards-based connected vehicle applications specific to signalized intersections.

Learning Objectives

1. Identify the benefits of standardization for agencies, system developers, and suppliers.
2. Describe the scope of ISO TS 19091 standard.
3. Review the structure of ISO TS 19091 standard.
4. Describe the user needs addressed by ISO TS 19091 standard.
5. Applying ISO TS 19091 standard content to your project.

Instructor



Patrick Chan, P.E.

Senior Technical Staff
Consensus Systems Technologies
(ConSysTec)



Keep an Eye Out for Bundle 2 Modules, Coming Soon!

Modules

December 5th, 2016

A311b (Update): Specifying Requirements for DMS Systems based on NTCIP 1203 Standard v03

December 7th, 2016

A313a (Update): Understanding User Needs for ESS Systems based on NTCIP 1204 Standard v04

December 14th, 2016

A306b: Specifying Requirements for Electrical and Lighting Management Systems based on NTCIP 1213 ELMS Standard v03