

***THIS ENTIRE SCOPE OF WORK FALLS UNDER SOURCE TYPE 9025***

**PROJECT INTRODUCTION**

The purpose of this contract is to further assist State with the deployment of thermal profiling and intelligent compaction technologies. The following work will be completed: 1) Creation of an online Veta 4.0 certification; and 2) Enhancements to Veta (Intelligent Construction Data Management Tool).

An online Veta 4.0 certification is needed in order to reach out to a large audience for accelerated statewide implementation of intelligent compaction (IC) and paver-mounted thermal profile projects at State. This training site is expected to be hosted on State's web servers. The site will consist of five 30-screen or approximately 30-minute modules that will train participants to be proficient in all aspects of Veta. As a prerequisite, participants are expected to have a basic understanding of IC and paver-mounted thermal profiling. It should be noted that this online training is not intended to replace in-person training workshops.

Further enhancements to Veta are needed to address issues that have been encountered during the current deployment efforts of both the intelligent compaction and thermal profiling technologies.

**STATE'S RESPONSIBILITIES**

State will participate in the planning meetings, review, and provide comments for the Veta Online Certification.

**PROJECT TASKS**

Contractor will perform the following tasks under this contract.

**Task A: Creation of an Online Veta 4.0 Certification**

**Methodology:**

The online training modules will be developed using a learning management system, such as Moodle. Selection of the learning management system will be coordinated with State's IT staff to ensure its compatibility with State's servers and ability to be easily maintained. The design of this online Veta certification will also ensure its scalability to meet future needs of State.

**Certification Contents:**

The online certification will consist of five modules to cover the major areas of the Veta software usage regarding IC, thermal profile, and spot test data:

1. Basic File Import and Viewing
2. Basic Analysis and Reporting
3. Intermediate Editing and Analysis
4. Case Studies
5. Tools and Resources

Task-based "How To..." features will be included. Users may know the analysis results they want to see, but do not know what information they need to provide. These "wizard-type" features will walk users through the process using actual case studies. The task-based analysis topics will include, but are not limited to:

- Statistics for all-passes IC data and final coverage IC data
- Coverage Analysis
- Correlation between IC/thermal profile data and Spot Test Data
- Specification Targets
- Subplots Analysis
- Data Filtering
- Semivariogram of IC Data
- Compaction Curve of IC Data
- Paver-mounted thermal profile Analysis (Paver Stops and Temperature Differentials)

A glossary and references will also be provided.

This online certification site will track the user's progress throughout the course. The user will be allowed to complete one module or multiple modules at a time. An electronic certificate will be provided to the user upon completion of all modules.

**Deliverable:**

Within six months of the award of the contract, Contractor will submit to State the Online Veta 4.0 Certification modules to users.

**Subtasks:**

This Online Veta Certification task will include five sub-tasks:

***Task A.1: Planning Meeting***

Contractor will organize and conduct a planning meeting between Contractor's team and State project leads. The planning meeting will take place via web conference. The work plan will be reviewed and necessary modification will be made. Additional meetings will be scheduled as necessary.

***Deliverable:*** Within two weeks, Contractor will organize and conduct a planning meeting. Contractor will produce meeting minutes that document the modification to the work plan, if any.

***Task A.2: Design Document***

Contractor will develop a document describing the planned design and function of all elements of the Online Veta Certification, including: details of the online certification platform that will be hosted by State, user interface, user privacy, and module organization and contents.

***Deliverable:*** Within two months, Contractor will deliver a design document to State. State will provide feedback and approval of Task A.2 Deliverable.

***Task A.3: Module Implementation***

Contractor will develop five 30-screen or approximately 30-minute online certification modules. The certification content will be fully implemented on the online platform as described in the Design Document.

***Deliverable:*** Within four months, Contractor will deliver five pilot online certification modules.

***Task A.4: Testing and Modification***

Contractor, State and selected beta testers will test the pilot modules delivered under Task A.3. Contractor will modify the modules based on the tests results and user feedback. State will provide review and approval for the finalized modules.

***Deliverable:*** Within 5.5 months, Contractor will provide a completed Online Veta Certification, with State approval.

***Task A.5: Deployment of Online Veta Certification***

Contractor will ready the Online Veta Certification for State to make it available to users.

***Deliverable:*** Within 6 months, Contractor and State will provide the Online Veta Certification modules to users.

**Task B: Enhancements to Veta**

Contractor will modify Veta to address issues that have been encountered during current deployment efforts of both the intelligent compaction and thermal profiling technologies. As high priority modifications are identified, a Design Specification, Requirement Specification and Budget will be created to document the enhancement prior to the work/enhancement being completed.



**PROJECT SCHEDULE AND DELIVERABLES**

Contractor will perform all tasks in accordance with the work schedule and as authorized by contract. Performance will begin on the effective date of the contract or task order as applicable.

NOTE: due dates listed below refer to weeks/months after the effective date of the contract.

<b>Task</b>	<b>Description</b>	<b>Due Date</b>	<b>Submittal</b>
<b>A.1</b>	Planning Meeting	2 weeks	Meeting Minutes
<b>A.2</b>	Design Document	2 months	Design Document
<b>A.3</b>	Module Implementation	4	Pilot Modules
<b>A.4</b>	Testing and Modification	5.5	Completed Online Veta Certification
<b>A.5</b>	Deployment of Online Veta Certification	6	Final Online Veta Certification Package
<b>B</b>	Veta Enhancements	12	Updated Veta