Designing and Navigating E-Learning into Communities that Need Training Assistance Locally

Kevin Monaghan  Danielle Mathis-Lee  Tom Tatem
E-Content Consulting  FHWA  PTG, Intl
Designing/Navigating E-Learning to Communities that Need Assistance Locally

iFEST

August 18, 2022

Office of Transportation Workforce Development and Technology Deployment
Program Oversight

Our Mission

To foster a safe, efficient, and environmentally sound surface transportation system by improving skills and increasing knowledge of the transportation workforce.
Challenges – Unique Target Audience

Local Technical Assistance Program (LTAP)

• 51 local Centers across the US and in Puerto Rico

• Provides transportation training & technical assistance
  • Local Government Agencies
  • Engineers
  • County Supervisors, Maintenance Workers, Flaggers, etc.
  • Transportation Officials
Challenges – Unique Target Audience

TTAP Center Distribution

- Provides transportation training & technical assistance
  - Engineers
  - County Supervisors, Maintenance Workers, Flaggers, etc.
  - Transportation Officials

<table>
<thead>
<tr>
<th>TTAP Centers</th>
<th>BIA Regions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Eastern TTAP Center</strong></td>
<td>Eastern</td>
</tr>
<tr>
<td></td>
<td>Midwest</td>
</tr>
<tr>
<td><strong>2. Southern TTAP Center</strong></td>
<td>Eastern Oklahoma</td>
</tr>
<tr>
<td></td>
<td>Southern Plains</td>
</tr>
<tr>
<td><strong>3. Southwestern TTAP Center</strong></td>
<td>Navajo</td>
</tr>
<tr>
<td></td>
<td>Southwest</td>
</tr>
<tr>
<td><strong>4. Northern TTAP Center</strong></td>
<td>Rocky Mountain</td>
</tr>
<tr>
<td></td>
<td>Great Plains</td>
</tr>
<tr>
<td><strong>5. Western TTAP Center</strong></td>
<td>Pacific</td>
</tr>
<tr>
<td></td>
<td>Western</td>
</tr>
<tr>
<td><strong>6. Northwestern TTAP Center</strong></td>
<td>Northwest</td>
</tr>
<tr>
<td><strong>7. Alaskan TTAP Center</strong></td>
<td>Alaska</td>
</tr>
</tbody>
</table>

- **TTAP Program Vision:** Through mutual respect and understanding, enhance the quality of life in Tribal communities by building capacity for Tribes to administer and manage their transportation programs and systems.

- **TTAP Center Mission:** Serve as a go-to local resource for Tribal transportation training, technical assistance, and technology transfer needs and opportunities to effectively carry out the TTAP Vision.
Solution – Understand the Challenges

Put tailored training and resources into the hands of our local transportation and tribal communities.

Training program must be easy to access & customized to target audience needs.

Geographical challenges along with continuous logistical hurdles and technology challenges need to be addressed.
Solution – Technology and Delivery Solutions

What technology does the user have access to?

- Easy Registration
- SCORM
- Responsive Design
- HTML5
- Media Formats
- LMS
- Solution
- Certificates and PDHs
- Development Software
Solution – Exploratory Learning

Module 5: Countermeasure Spotlight - Raised Crosswalks

Key Features and Benefits

- Approach ramps force motorists to slow down and improve motorist yielding

Select each highlighted feature to learn more.

Module 1: Goal – Increase Pedestrian Safety

Implementing Pedestrian Safety

- Step 1: Collect data and engage the public
- Step 2: Inventory conditions and prioritize locations
- Step 3: Analyze crash types and safety issues
- Step 4: Select Countermeasures
- Step 5: Consult design and installation resources
- Step 6: Identify opportunities and monitor outcomes

Modules 4 – 10 will spotlight the seven pedestrian safety countermeasures
Once you’ve earned all of these items, you’ll have completed the course!

- Each time you earn a new item, you’ll see me wearing our new piece of gear, going from this to this.
Solution – Gamified Theme

Module 2: Pipe Installation Procedures

Let’s Begin!

Each time you complete a step, you will gain a star. What do you say? Let’s get started!

Module 3: Pipe Installation Procedures

Bravo!

Let’s take a moment to install our pipe and earn star number five.
Questions?