Highways need rehabilitation

Photos: Courtesy of SPTC members (Caltrans, MnDOT, TxDOT, WSDOT)
Some challenges identified...

- Longer-lasting Design
- Faster Construction delivery
- Tolerable Work Zone traffic delays
- Agency Budget constraints

Photos: Courtesy of Pavia and WSDOT
Help agencies and contractors to select more efficient and economic highway construction strategies

- Construction Schedule
- Traffic Delay
- Agency Cost
Project Goal & Objectives

- Educate agency personnel and consultants CA₄PRS use and its benefits
- Increase availability of CA₄PRS training
- Provide consistent training anytime, any place
- Reduce training time for required participants
- Reduce overall cost of training program
Why online training?

- About 50% more time efficient without loss of effectiveness
- Repetition leads to retention
- Consistent message delivered
- Easily updateable and instantly distributed
- Assessments, Tracking, and Reporting
- Cost benefit compared to classroom delivery
E-learning savings vs. ILT

Scope of Services

2-3 day in-class seminar

~ 6 classroom equivalent hours online
Program Elements

Interactive training → Online assessment → Certificate

Delivery, Learning Management and Reporting
Course development process

**Design**
- Learning objectives and grading
- Author storyboards
- Author narration script

**Develop**
- Create animations & interactions
- Record & edit audio
- Package course and quiz

**Review**
- Internal expert review
- SPTC review
- Address feedback

**Deploy**
- Apply SPTC branding
- Site and admin setup
- Course activation
CA4PRS Online Training Program

- Introduction [0.5 hr]
- Schedule Analysis [2.5 hr]
- Work Zone Traffic [1.0 hr]
- Project Cost Estimate [1.0 hr]
- Implementation and Exercises [1.0 hr]
Introduction

Schedule Analysis

- Introduction
- JPCP
- Milling/AC
- Crack and Seat/FDAC
- CRCP
- Precast Concrete
- Roadway Widening*

*Anticipated to be developed following v 3.0 release in November 2010
CA4PRS Online Training Program

Work Zone Traffic

• Lane closures
• Work zone capacity and sensitivity

Project Cost Estimate

• Agency Cost
• Traffic Costs
• Present Value
Demonstration: JPCP
Schedule and Timeline

- 2010
  - Design
  - Develop
  - Review
  - Deploy

- 2011 - 2013
  - Delivery
Available early 2011:
- Web-based training modules and content available
- Delivery provided for up to 2,000 users (1,000/year) till end of 2013
- Admin and reporting tools via Pavia Systems hosted Learning Management System
Course development process

Design
- Learning objectives and grading
- Author storyboards
- Author narration script

Develop
- Create animations and interactions
- Record and edit audio
- Package course

Review
- Internal expert review
- SPTC review
- Address feedback

Deploy
- Custom branding
- Site setup
- Course activation
Want to review or test drive?

- Review periods will occur throughout the year on individual modules
- Interested in providing feedback during review contact:

  George White  
george@paviasystems.com  
206.428.3094 x4
Some other updates...

- Pavement Interactive
- Free Training Resources
  - RAP
  - Warm Mix
  - Sustainability
  - Rubberized HMA
Looking for a just-in-time resource on pavement practices?

Seeking a free, credible resource for pavement needs?

In search of graphics, videos, and animations to help with pavement education?
Who is involved?

[Map showing states in gray, indicating involvement]
Who uses it?

- Over 320,000 unique visitors
- With over 3,000,000 page views
- From over 220 countries
Latest developments...

- New content added
  - LCCA
  - Asphalt Additives
  - DBR Construction
  - BST
  - Sustainability
  - Permeable/Porous Pavements
- Survey and poll
Available for access now!

http://www.pavementinteractive.org
Free Introductory Modules

- Warm Mix Asphalt
- Reclaimed Asphalt Pavement
- Rubberized Hot Mix Asphalt
- Sustainability and Paving

paviasystems
With the Warm Mix module, in 15 minutes you’ll get answers to questions like:

- Is Warm Mix cheaper, safer, or higher quality?
- What are the Warm Mix production approaches?
- Are there any risks to using Warm Mix?
With the RAP module, you’ll get answers to questions like:

- How long has RAP been used in the field?
- Is RAP cheaper, safer, or produce higher quality when compared to virgin materials?
- What are the risks to using RAP?
Rubberized Hot Mix Asphalt (RHMA)

In less than 15 minutes you’ll be introduced to:

- How rubberized hot mix asphalt was developed
- Production and mix design processes for RHMA
- Applications of RHMA
- Proper RHMA paving techniques
The free Sustainability and Paving course discusses:

- What sustainability means for asphalt paving & why it matters for your business
- How to define sustainability for our industry
- Examples of sustainable practices used today
Available for free distribution now!

http://www.paviasystems.com/freearchive
Questions?

- Want to know more about freely available resources for the industry?
- Have a request for the next intro topic?
- Got other ideas to share?

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