# ITS PCB University Workshop



### September 23, 2016

#### Online Materials that can be Utilized by Universities for FREE



### What is CITE?

- Consortium for ITS Training and Education
- A unique consortium of over 100 university and industry partners
- Provide interactive online advanced transportation courses
- Types of offerings
  - o Certificate Programs
  - Independent Study Courses
  - o Blended Courses
  - o Full Semester Courses





# **CITE'S AUDIENCE**

- University/College Students
  - Courses taken from University Partners
  - College credit given for completion through partners
- Industry professionals
  - Courses taken directly through CITE
  - CEU's given for completion





# **CITE & ITS PCB PARTNERSHIP**

- Development of Online Courses and Offered through CITE
- Offering all Courses for FREE to public agencies \*
- Updating Courses to New Format
- Joint Marketing of online courses

Connected Vehicle 101 Offered for FREE to everyone





# **NEWEST COURSES AVAILABLE**

- Archived Data for Planning, Operations and Safety
- Connected Vehicles 101
- Cyber Security
- Performance Measurement
  - Intro to Operations Performance Measures and Management
  - Nuts and Bolts of Operations Performance Measurement
  - Operations Performance Management: Real-time Operations to Long Term Planning
- Travel Time (Vehicle Probe Data)





# **OTHER COURSES AVAILABLE**

- Fundamentals of Database Management Systems
- Improving Highway Safety with ITS
- Introduction to Systems Engineering
- Introduction to the National ITS Architecture
- ITS Applications in transit Management and Operations
- Managing High Technology Projects in Transportation
- Network Design and Deployment Considerations for ITS Managers and Professionals
- Overview of Operations
- Principles and Tools for Road Weather Management
- Telecommunications and Networking Fundamentals
- Tools of Advanced Transportation Management Systems
- Traffic Signal Timing





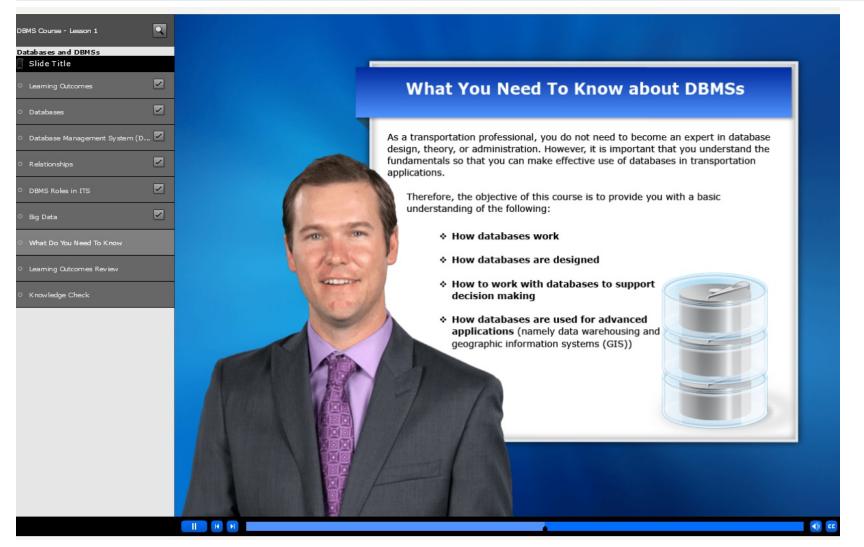
### **Certificate Programs**

- Students Take (3) core courses & (3) electives
- One year time frame to complete
- (5) Certificate Programs Available
  - o ITS Project Management
  - o ITS Systems
  - Performance Measurement
  - Road Weather Management
  - Traffic Engineering and Operations



#### SAMPLE COURSE PAGE



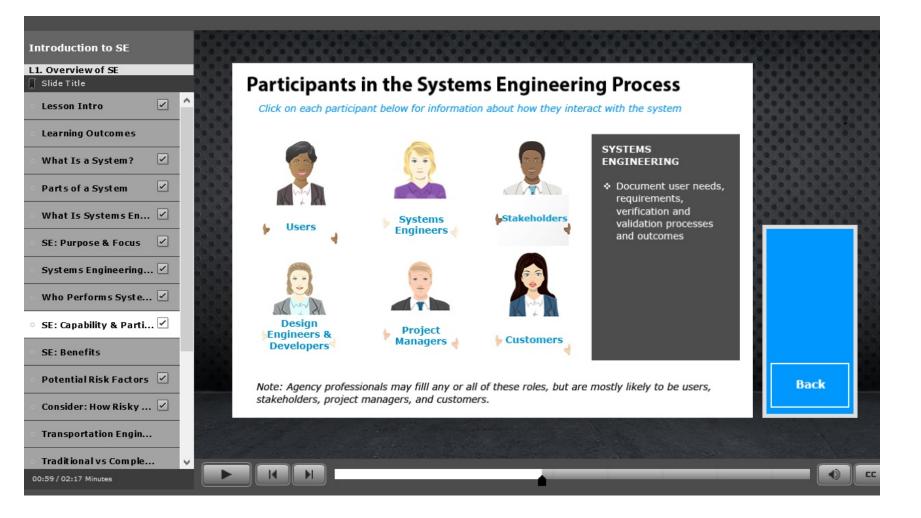


Credit: CITE - www.citeconsortium.org



#### **SAMPLE COURSE PAGE**





Credit: CITE - www.citeconsortium.org



#### SAMPLE KNOWLEDGE CHECK



DBMS Course - Lesson 2	٩		
How Databases Work		Knowledge Check	on 1 of 3
<ul> <li>Why Use a Database?</li> <li>What Is a Relational Database?</li> </ul>		Match each term on the left with the corresponding definition on the right.	
<ul> <li>Relational Database Structure</li> <li>Relational Database Tables</li> </ul>		Select your answer and then click Submit Answer Terms Definitions	
Relating Tables with Keys     Normalizing Databases		<ul> <li>Table</li> <li>Table</li> <li>Single field that uniquely identifies each and every records</li> <li>Records</li> <li>Columns of a table</li> </ul>	/ record
Relational Database Tutorial     Learning Outcomes Review		<ul> <li>Fields</li> <li>Primary Key</li> <li>3. When keys are used to relate two tables</li> <li>4. The core structure of a relational database</li> </ul>	
<ul> <li>Knowledge Check</li> <li>Workshop #1</li> </ul>		Join 5. Rows of a table Subm	



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# **BENEFIT of CITE to UNIVERSITIES**

- Universities have FREE access to ALL of CITE's courses
  - Need to become a CITE Partner
  - That's FREE too
- Materials used to supplement existing courses





# **HOW TO BECOME A CITE PARTNER**

- 1. Visit CITE website www.citeconsortium.org
- 2. Click on "Partners: Become a Partner"
- 3. Download and complete forms
- 4. E-mail forms to Denise Twisdale mztwiz@umd.edu





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