CA4PRS Hands-on Training Workshop

CA4PRS hand-on training is available in a two-day workshop with interactive demonstrations and exercises in a computer lab.

The training target audience includes:

- Engineers and managers in state DOTs: Project management, Planning and Design, Maintenance and Construction (including Materials), Traffic operation.
- Consultants and paving contractors during estimating and project control stages.

What You Will Learn

The trainees will learn how to use CA4PRS software in their decision-making process for highway rehabilitation/reconstruction projects to do the following analyses:

- **Schedule Analysis**
  - Working days estimates and CPM schedule
  - Construction staging plan
  - FHWA work-zone regulation
- **Traffic Analysis**
  - Work-zone delay calculation
  - Integration with traffic network simulations
  - Traffic management plans
- **Cost Analysis**
  - Cost estimates based on bid database
  - Total cost and life-cycle cost analysis approach
  - Incentives/disincentives and A+B contracts

For More Information

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http://www.dot.ca.gov/hq/research/roadway/ca4prs/index.htm

Caltrans LMS (Training) Course Code: 100181

CA4PRS Training Workshop Schedule

DAY-1	
8:30 – 9:00 a.m.	Course Introduction
9:00 – 10:15 a.m.	*CA4PRS* Overview Presentation
10:15 – 10: 30 a.m.	AM Break
10:30 – 12:00 p.m.	Lab 1: Concrete Rehabilitation (JPCP)
12:00 – 1:00 p.m.	**Lunch**
1:00 – 2:30 p.m.	Lab 2: Concrete (CRCP) and Probabilistic Analysis
2:30 – 2:45 p.m.	PM Break
2:45 – 4:15 p.m.	Lab 3: AC Rehabilitation (AC Overlay or Full-depth AC replace)
4:15 – 4:30 p.m.	First-day Wrap-up
DAY-2	
8:30 – 10:00 a.m.	Lab 4: AC Rehabilitation (Milling and AC Overlay)
10:00 – 10: 15 a.m.	AM Break
10:15 – 12:00 p.m.	Lab 5: Design-Traffic Integration for Highway Projects
12:00 – 1:00 p.m.	**Lunch**
1:00 – 2:15 p.m.	Network Traffic Simulations and TMP for Work-zones
2:15 – 2:30 p.m.	PM Break
2:30 – 3:45 p.m.	Lab 6: Exercise for State/District Projects
3:45 – 4:00 p.m.	Wrap-up and Course Evaluation

Training Instructor

Eul-Bum (E.B.) Lee, *Ph.D., PE, and PMP*, has more than 20 years of experience in heavy construction, mainly in the varied disciplines of transportation projects, including design and engineering, project management and control, and academic research. Currently working as an associate researcher and a principal investigator in the Institute of Transportation Studies at the University of California, Berkeley, Dr. Lee has focused on researching and implementing innovative methods for rehabilitating transportation infrastructure. Dr. Lee earned M.E. and Ph.D. degrees in the Engineering Project Management Program of the Department of Civil and Environmental Engineering at UC, Berkeley.

Dr. Lee is actively involved in the academic and professional communities in construction/project management and transportation engineering. Currently he is serving as a committee member, expert group member, or journal reviewer for the ASCE, the AASHTO, the FHWA, and the TRB. His research work has been published in a variety of journals with about 20 peer reviewed papers and 25 conference proceedings. Recognized nationally for his contributions to the research and implementation of new industry practices, Dr. Lee has received a number of awards, including the California Department of Transportation's 2005 Excellence in Transportation Awards (Innovation and Public Outreach).