

# Utility Training Opportunities for DOTs

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*2012 AASHTO Subcommittee on Right of Way and Utilities Conference*

*Marriott Waterfront Hotel – Portland, Oregon  
April 29 to May 3, 2012*



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# FHWA's NHI Course

- "Utility Coordination for Highway Projects"
- Targeted to transportation personnel responsible for accommodating or relocating utilities
  - Federal, state, local government employees
  - Utility company employees
  - Contractors and consultants
  - Mid- to senior-level managers

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# NHI Course

- Half-day, web-based course is completed before the on-site course.
- Two-day, instructor-led , on-site course requires the half-day as a prerequisite

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# NHI Course Modules

- Project Development
- Planning, Environment, and ROW
- Design
- Construction
- Maintenance
- Accommodation
- Relocation
- SUE
- Innovative Practices

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# NHI Course Availability

- Course was piloted in November, 2011
- Potential Schedule:
  - Contact NHI perhaps as soon as May 2012 to schedule the course.
  - Course delivery might start as soon as July 2012.

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# NHI Course Contacts

- NHI Website: [www.nhi.fhwa.dot.org](http://www.nhi.fhwa.dot.org)
- FHWA: Mr. Ken Leuderalbert  
[ken.leuderalbert@dot.gov](mailto:ken.leuderalbert@dot.gov)  
317-226-5351

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# SHRP 2 Course: Utility Conflicts and Solutions

- One-day, on-site course developed at Texas Transportation Institute (TTI)
- Target audience of utility coordinators, project managers, utility designers, contractors, and consultants.

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# SHRP 2 Course Lesson Plan

- Utility Conflict Concepts
- Utility Conflict Identification and Management
- Hands-on Exercise
- Use of Database to Manage Conflicts

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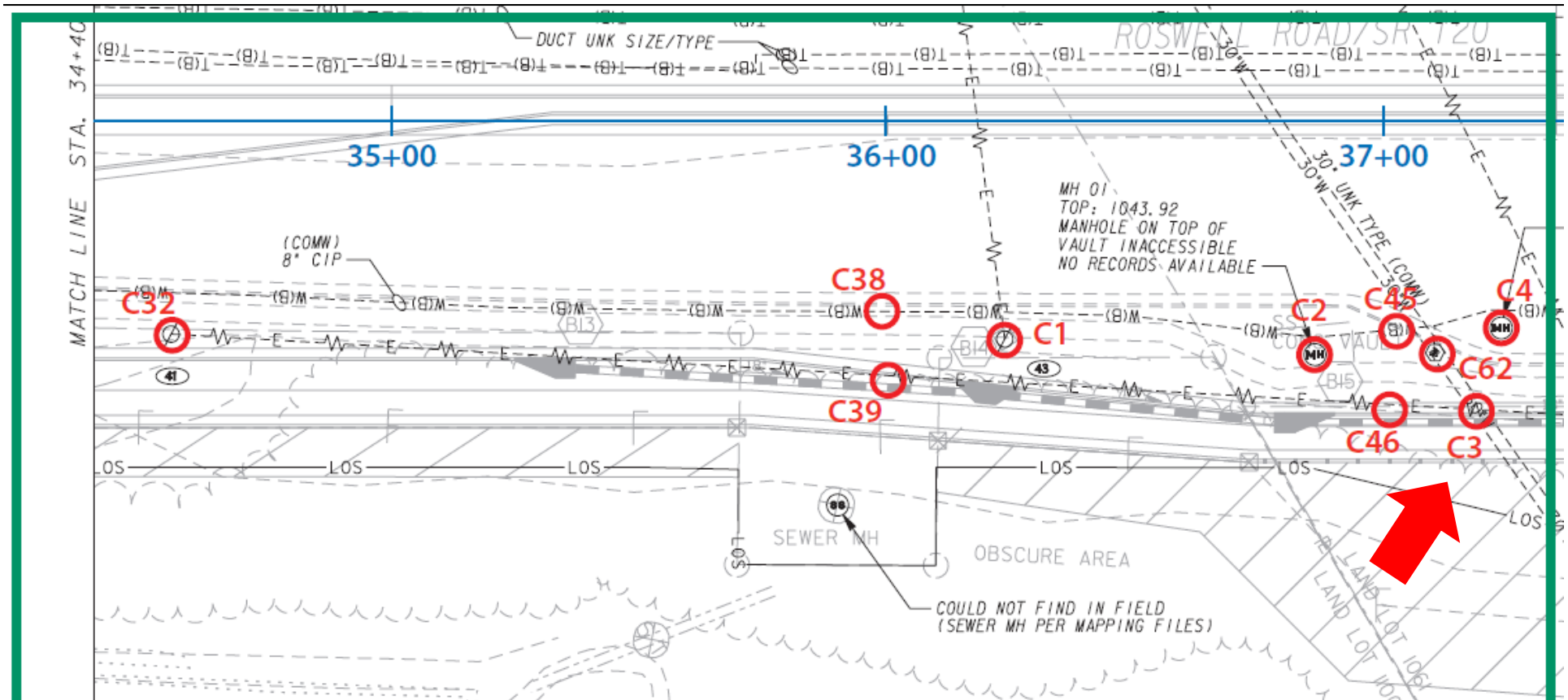


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# Hands-on Utility Conflict Analysis



Utility Owner	ID	Sheet No.	Utility Type	Size/ Material	Utility Conflict Description	Start Sta.	End Sta.	Start Offset	End Offset	Inv. Need	Test Hole	Recommended Action	Rsp. Party	Est. Res. Date	Res. Status	Cost Analysis
	C3	1	WM	30"	Proposed 18" drainage pipe would cross WM.	37+20		60' Rt		QLA	3	Review possibility of adjusting drainage pipes up to avoid conflict, lowest structure (B13) is at 5.6'.	D	n/a	Utility conflict identified.	

# SHRP 2 Course Availability

- There have been two pilot courses.
- The third/last pilot course is not scheduled yet.  
To volunteer your state, call Chuck Taylor at TRB,  
[ctaylor@nas.edu](mailto:ctaylor@nas.edu) 202-334-2065
- We hope NHI will add this course to its roster.
- Additional info: Cesar Quiroga,  
[c-quiroga@tamu.edu](mailto:c-quiroga@tamu.edu) (210) 979-9411

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# Florida Utilities Coordinating Committee (FUCC)

- Has a 5-course training series
- Target audience of highway consultants and utility personnel with responsibilities in utilities coordination.
- Hopes series will form basis of “utilities certification” in Florida
- 450 persons trained in past few years

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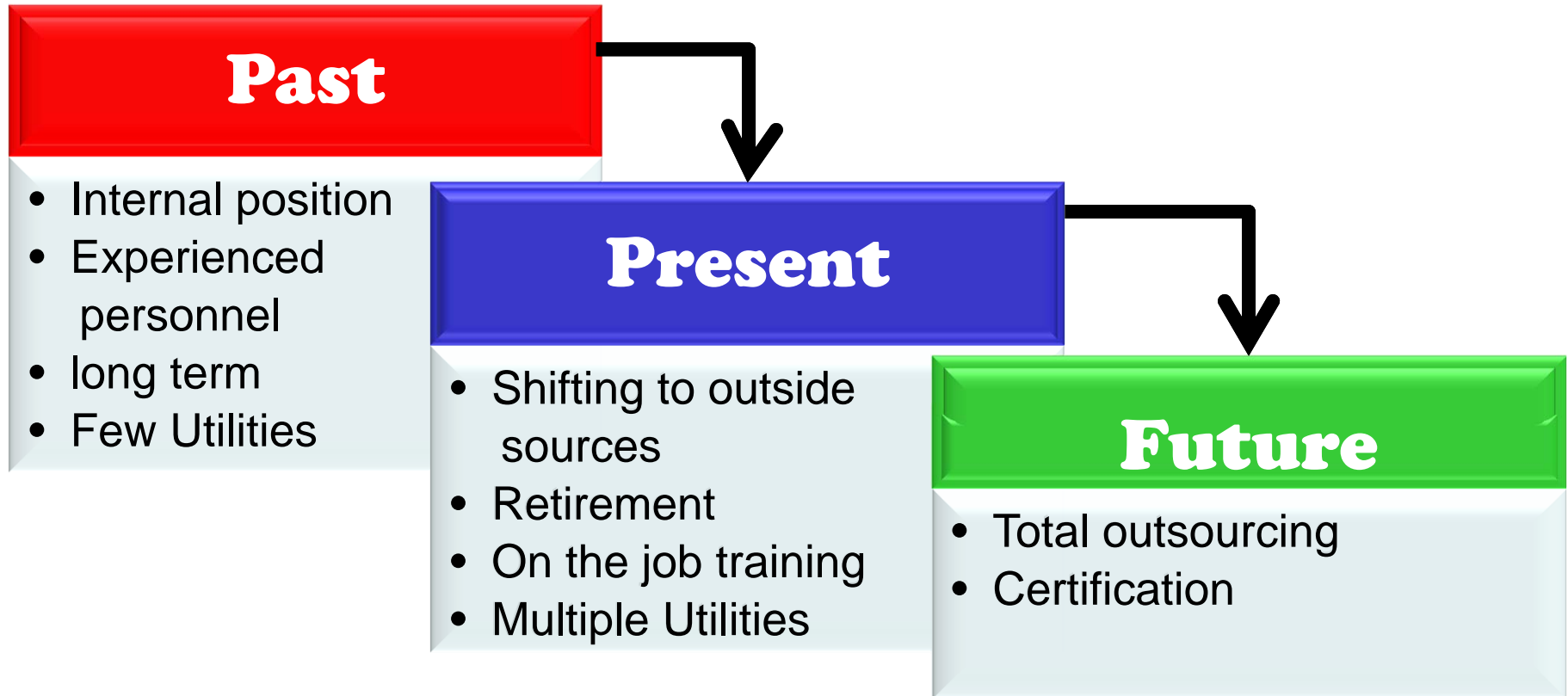
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# How Utility Coordination Is Evolving



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# Florida's Approach

- Develop a training package specifically designed for utility coordination
- Add credibility behind the training classes by certification
- Use the certification by the FUCC for the standard measuring tool for a utility coordinator

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# Florida Course Modules

- Regulations and Agreements (1-day course)
- Coordination (1-day course)
- Design (2-day course)
- Construction Management (1-day course)
- Cost Estimating and Invoicing (1-day course)

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# For More Information about Florida Courses

- Mr. Dennis LaBelle
- M & T Consultants, Inc.
- Office: [305-279-8614](tel:305-279-8614)
- Cell: [305-308-3096](tel:305-308-3096)
- [dlabelle@mtconsults.com](mailto:dlabelle@mtconsults.com)

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# IUPUI Addresses SUE

- IUPUI-Purdue School of Engineering & Technology
- Department of Construction Engineering Management Technology (CEMT)
- CEMT 275: Applied Civil Engineering Drafting

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# Inside CEMT 275

- One Week on Subsurface Utility Engineering (SUE)
- 50-slide Powerpoint Presentation
- Homework on SUE

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# with New Technologies



## Utility Designating via Surface Geophysical Methods

Detecting  
Frequencies



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# Why Use SUE?



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# IUPUI Contact

- Tom Iseley, Ph.D., P.E.  
IUPUI-Purdue School of Engineering &  
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# Summary

- One existing set of course offerings from Florida
- Two more courses may arrive soon from NHI
- Additionally, one university course addresses SUE

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