



Introduction to Practical Railway Engineering March 21-23, 2012 • Las Vegas, NV

Do you have limited exposure to the Railway Industry?

Are you a railroader in a highly specialized position?

If you answered “YES” to either of the above questions, this is the seminar for YOU! Our experience has shown that typical participants benefiting the most from this course are those with limited exposure to the railway industry or railroaders with highly specialized positions.

BENEFITS

- Contact with other railroad professionals through our low student/instructor ratio.
- Participants will gain a greater appreciation for the technical and not-so-technical aspects of railroad engineering and operations.
- Registration fee includes a workbook containing printed copies of the presentation and a digital copy of the *Practical Guide to Railway Engineering*© (\$175 value); an 800-page text published by AREMA.

AGENDA

Wednesday, March 21, 2012		Thursday, March 22, 2012		Friday, March 23, 2012	
7:30am	Registration / Welcome	8:00am	Welcome/Safety Briefing	8:00am	Welcome/Safety Briefing
8:00am	Introduction & Safety Briefing	8:05am	Work Equipment	8:05am	Field Visit (Escorted Tour)
8:20am	Railway Industry Overview	8:40am	Track Inspection & Maintenance	11:35am	Course Review and Evaluation
9:00am	Train Operations	9:55am	BREAK	Noon	End of Seminar
9:55am	BREAK	10:10am	Civil and Track Construction		
10:10am	Basic Track – Part I	10:50am	Railway Structures		
11:15am	Railway Equipment	Noon	LUNCH		
Noon	Lunch	1:00pm	Environmental Regulations and Permitting		
1:00pm	Tractive Effort	2:05pm	Highway-Railway Grade Crossings: Passive		
1:40pm	Train – Track Dynamics	3:05pm	Utility Occupations		
2:10pm	Soils, Drainage and R-O-W	3:40pm	Communications and Signals		
2:50pm	BREAK	5:00pm	End of Day 2		
3:05pm	Basic Track – Part II				
3:50pm	Railway Track Alignment Design				
5:00pm	End of Day one				

Tentative Instructors

- John G. Green, PhD, PE, HALCROW – A CH2M Hill Company
- Michael McGinley, PE, SCRRA (retired)
- Mark Engels, Escortt LLC
- B. Coy Horton, Union Pacific Railroad

Seminar Hours

This course will be held Wednesday, March 21st and Thursday, March 22nd from 8:00am to 5:00pm, and Friday, March 23rd from 8:00am – noon.

Seminar Location: University of Nevada, Las Vegas Campus, 4505 Maryland Parkway, SU – Room 219, Las Vegas, NV 89154

Lodging Suggestion: There are many hotels located along Las Vegas Boulevard between Flamingo Road and Tropicana Avenue, which are located two miles west of the UNLV campus.

Casual wear is suggested. Seminar includes a field trip to a local active railway facility. All IPRE Students are required to wear long pants and sturdy, closed toe shoes on the day of the field trip.

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Seminar Registration Form

Name			
Nickname for Badge		Title	
Company			
Address			
City		State/Province	Zip/Postal Code
Phone		Fax	
Email			
Is this a change of address? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Do you have any disabilities requiring special assistance or equipment? <input type="checkbox"/> Yes <input type="checkbox"/> No			
If yes, please describe _____			
I have read the cancellation & minimum number of registrations policy and agree with the terms and conditions. Initial Here _____			
Please check the correct amount:		Member Rate	Non-Member Rate
Fee by March 7, 2012:		<input type="checkbox"/> \$700	<input type="checkbox"/> \$860
Fee after March 7, 2012:		<input type="checkbox"/> \$800	<input type="checkbox"/> \$960
Payment Method – Please check one: <input type="checkbox"/> Check enclosed (Payable to AREMA and drawn on a US Bank in US Funds) Check Number: _____			
Credit Card: <input type="checkbox"/> Visa <input type="checkbox"/> MasterCard <input type="checkbox"/> American Express <input type="checkbox"/> Discover			
Credit Card No.		Expiration Date	CSC Code Name Printed on Card
Signature		Card Holder Phone Number	

- Please check here if you are interested in receiving an AREMA membership application form.
- Please check here if you are interested in receiving information on advertising opportunities with AREMA.
- Please check here if you are interested in making a tax-deductible donation to the AREMA Educational Foundation.

Professional Development Hours

By attending this seminar, you are entitled to earn Continuing Education Units (CEUs) and Professional Development Hours (PDHs). PDHs for New York and Florida are available through AREMA's special relationship with the Florida Board of Professional Engineers and the New York Professional Engineers Program. In addition to PDHs, CEUs are available through a special agreement negotiated with the University of North Florida. IPRE provides 20 contact hours of technical content. Certificates of completion will be provided at the end of the seminar(s).

I am a Professional Engineer in the state of Florida. My License Number is _____.

Cancellations/Refunds

Refunds will be issued if the seminar is cancelled by AREMA. Participant cancellation is subject to a 20% administrative fee by AREMA. No cancellations will be accepted after March 7, 2012. Substitutions may be made for a \$60 processing fee. All cancellations/changes must be received in writing. Classes are subject to cancellation if a minimum number of registrants are not met two weeks prior to the class date. You will be notified immediately if cancellation occurs.