



**Introduction to Practical Railway Engineering Seminar**  
**March 20 – 22, 2019**  
**Las Vegas, Nevada**

## AGENDA

Wednesday, March 20, 2019		Thursday, March 21, 2019		Friday, March 22, 2019	
7:30 am	Registration	8:00 am	Welcome/Safety Briefing	8:00 am	Welcome/Safety Briefing
8:00 am	Welcome, Introduction & Safety Briefing	8:05 am	Track Inspection	9:00 am	Field Visit – Union Pacific Rail Yard
8:20 am	Railway Industry Overview	9:30 am	Civil & Track Construction	11:35 am	Course Review & Evaluation
9:00 am	Train Operations	10:00 am	BREAK	Noon	End of Seminar
9:55 am	BREAK	10:15 am	Track Maintenance		
10:10 am	Environmental Regulations & Permitting	11:25 am	Highway Rail Crossings		
11:15 am	Railway Equipment	Noon	Lunch		
Noon	Lunch	1:00 pm	Structures		
1:00 pm	Tractive Effort	2:15 pm	Utility Occupations		
1:40 pm	Basic Track – Part	2:45 pm	BREAK		
2:45 pm	BREAK	3:00 pm	Communications & Signals		
3:00 pm	Soils, Drainage & R-O-W	4:00 pm	Railway Track Alignment Design		
3:50 pm	Basic Track – Part II	5:00 pm	End of Day Two		
4:30 pm	Train – Track Dynamics				
5:00 pm	End of Day One				

### **Field Trip Information**

Casual wear is suggested, but all IPRE students are required to wear long pants on the day of the field trip.

**Additionally, all students are required to bring a hard hat, safety glasses, safety shoes, and a reflective vest for the trip.**