

Mechanically Stabilized Earth Walls and Reinforced Soil Slopes

including
Load Resistance Factor Design (*LRFD*)

October 26-28, 2011
The Newark Club, Newark, NJ

Instructors: Dov Leshchinsky and Jim Collin

Day Time	TOPIC Lesson Number & Title (per <i>Participant Book</i>)	Length (minutes)
Wednesday (October 26, 2011)		
	INTRODUCTION	
8:00 – 8:45	1. Introduction and Course Outcome	45
8:45 – 9:30	2. Terminology, Historical Development, Applications, Advantages/Disadvantages, Costs, and Descriptions of Systems	45
	MSEW and RSS SYSTEMS; PROJECT EVALUATION	
9:30 – 10:00	3. Construction Overview	30
10:00- 10:20	<i>Break</i>	20
10:20 – 11:05	4. Site and Project Evaluations and Project Considerations	45
11:05 – 11:50	5. Establishment of Soil Properties	45
11:50 – 12:50	<i>Lunch</i>	60
	SOIL REINFORCEMENT PRINCIPLES	
12:50 – 2:00	6. Soil Reinforcement Interaction (w/ exercise)	70
2:00 – 2:05	<i>5-minute stretch break</i>	5
2:05 – 3:25	7. Steel Corrosion, Geosynthetic Degradation and Long-term Strength	80
3:25 – 3:45	<i>Break</i>	20
	DESIGN OF MSE WALLS	
3:45– 5:00	8. Fundamentals of LRFD and Application to MSE Walls	75

Thursday (October 27, 2011)

8:00 – 8:15	Review of Day 1; LRFD Discussion	15
8:15 – 9:40	9. Design Methods and External Stability (w/ exercise)	85
9:40 – 10:00	<i>Break</i>	20
10:00 – 12:00	10. Internal Stability (w/ exercise)	120
12:00 – 1:00	<i>Lunch</i>	60
1:00 – 2:20	11. MSE Wall Design Details	80
2:20 – 2:25	<i>5-minute break</i>	5
2:25 – 3:25	12. Design for Complex Geometries	60
3:25 – 3:45	<i>Break</i>	20
3:45 - 5:00	13. Design for Extreme Events	75

Friday (October 28, 2011)

8:00 – 8:15	Review of Day 2; Q & A	15
	RSS PROJECT EVALUATION	
8:15 – 9:00	14. RSS Systems and Design Approach	45
9:00 – 9:45	15. Construction, Face Treatment, and Design Details	45
9:45 – 10:00	<i>Break</i>	15
	DESIGN OF RSS STRUCTURES	
10:00 – 11:00	16. RSS Design	60
	FIELD INSPECTION and PERFORMANCE MONITORING	
11:00 – 11:30	17. Field Inspection, Performance Monitoring and Maintenance	30
11:30 – 12:30	<i>Lunch</i>	60
	PROGRAM MSEW(3.0) and ReSSA(3.0)	
12:30 – 2:30	Walkthrough MSEW (w/ exercise)	120
2:30 – 2:50	<i>Break</i>	20
2:50 – 5:00	Walkthrough ReSSA (w/ exercise)	130