



BLASTERS TRAINING SEMINAR PROGRAM

Day 1 – Wednesday, January 4, 2017

7:30 – 8:00 am	Registration	
8:00 – 8:15 am	Introduction	Paul Worsey, <i>Missouri S&T</i>
8:15 – 9:00 am	Overview of Blasting and Explosive Types	Doc Holiday, <i>Austin Powder</i>
9:00 – 10:00 am	Selection of Explosives	Doc Holiday, <i>Austin Powder</i>
	Explosive Selection Criterion	
	Explosive Properties	
	Explosive Types	
10:00 – 10:15 am	Break	
10:15 – 12:00 pm	Initiation Sys. & Blasting Mach.	Mark Acree, <i>Orica</i>
		Or
	Electric Initiation Systems	Paul Worsey, <i>Missouri S&T</i>
	Nonelectric Initiation Systems	
	Electronic	
12:00 – 1:00 pm	Lunch Break	
1:00 – 2:00 pm	Design of a Blast Hole	Paul Worsey, <i>Missouri S&T</i>
2:00 – 3:00 pm	Blast Design	Paul Worsey, <i>Missouri S&T</i>
	Pattern Design, Detailed	
	Layout & Timing of Blastholes	
3:00 – 3:15 pm	Break	
3:15 – 4:15 pm	Delay Design/Pattern Timing	Paul Worsey, <i>Missouri S&T</i>
4:15 – 4:45 am	Trouble Shooting Oversize	Paul Worsey, <i>Missouri S&T</i>
4:45 – 5:00 pm	Specialist & Secondary Blasting	Paul Worsey, <i>Missouri S&T</i>



Day 2 – Thursday, January 5, 2017

8:00 - 9:00 am	Blast Design Cont. Geologic Considerations	Keith Henderson, <i>Buckley Powder</i>
9:00 – 10:00 am	Loading Blast Holes	Keith Henderson, <i>Buckley Powder</i>
10:00 – 10:15 am	Break	
10:15 – 11:00 pm	Construction Blasting	Greg Jones, <i>Orica</i>
11:00 – 12:00 pm	Safety Signs, Warning Signals & Site Control Flyrock	Paul Worsey, <i>Missouri S&T</i>
12:00 – 1:00 pm	Lunch Break	
1:00 – 2:00 pm	Unpredictable Hazards Lightning Stray Currents Radio Waves Misfires	Greg Jones, <i>Orica</i>
2:00 – 3:00 pm	Federal & State Laws & Regs MSHA, ATF,	Paul Worsey, <i>Missouri S&T</i>
3:00 – 3:15 pm	Break	
3:15 – 3:40 pm	State Regs	Paul or Gillian Worsey, <i>Missouri S&T</i>
3:40 – 5:00 pm	Federal & State Laws Cont.. DOT OSM Blast Plan Requir. & Sch. EPA, DNR	Paul or Gillian Worsey, <i>Missouri S&T</i>



Day 3 – Friday, January 6, 2017

8:00 – 10:00 am	Environment Effects Ground Vibrations Air Blast	Lee Frea, <i>Vibra-Tech</i>
10:00 – 10:15 am	Break	
10:15 – 11:30 am	Blast Vibration Monitoring Seismographs Records Pre-Blast Surveys Effects of Timing	Lee Frea, <i>Vibra-Tech</i>
11:30 – 12:00	State Exam Review	Paul Worsey, <i>Missouri S&T</i>
12:00 – 1:00 pm	Lunch Break	
Afternoon - Advanced Topics		
1:00 – 2:00 pm	Basics of Advanced Blast Design	Paul Worsey, <i>Missouri S&T</i>
2:00 – 3:00 pm	<i>Blasting Cap Accuracy</i>	<i>Paul Worsey,</i> <i>Missouri S&T</i>
	Or	
2:00 – 3:00 pm	<i>Underground Blasting</i>	<i>Mark Acree,</i> <i>Orica</i>
3:00 – 3:15 pm	Break	
3:15 – 4:15 pm	Dead Pressing & Sympathetic Detonation using newer explosives	Paul Worsey, <i>Missouri S&T</i>
4:15 – 5:00 pm	Perimeter Blasting	Paul Worsey, <i>Missouri S&T</i>