

**CERTIFIED AGGREGATE TECHNICIAN TRAINING COURSE AGENDA**

Title – Time	Subjects	Instructor	Reference
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**Monday Morning**  
Moderator: Ron Walker

Introduction

10:00	Opening Comments	Ron Walker	
to			
10:15	Agenda/Manual Update		

CAPP Technician Program Responsibilities

10:15	Industry Perspective	Robert Jones	
to			
10:30			

Math for Aggregates

10:30	Round-Off Rules	Ron Walker	Chp 1
to			
11:15	Calculator Operation		
	Mean		
	Standard Deviation		
	Moving Average		

Geology

11:15	Origin	Nelson Shaffer (Marni Karaf)	Chp 2
to			
12:00			

12:00 to 1:00                      \*\* LUNCH \*\*

**Monday Afternoon**  
Moderator: Bob Rees

Aggregate Quality

1:00	Aggregate Types & Terms	Bob Rees	Chp 2
to		(Eric Woodings/ Brad Williamson)	
2:00	Properties		Chp 3
	Quality Requirements		Chp 4
2:00 to 2:15	** BREAK **		

Tests for Quality Rating

2:15	Absorption	Bob Rees	Chp 4/Chp 10
to		(Eric Woodings/ Brad Williamson)	
3:00	Abrasion Resistance		
	Soundness		
	Deleterious Materials		
	Special Requirements		
3:00 to 3:15	**BREAK**		

Test for Quality Rating (continued)

3:15		Bob Rees	
to		(Eric Woodings/ Brad Williamson)	
4:30			
5:00	**DINNER**		

Help Session

7:30	Holiday Inn Express: Bob Lingerfelt/Trent Sanders Dave Hamilton/Deana Jones/Stu Schwotzer		
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**Tuesday Morning**  
Moderator: Bob Rees

Math Homework Review

8:00 to 8:10	Answers & Discussion	Bob Rees
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Processing

8:10 to	Extraction	Bob Lingerfelt Jim Schultz George Williams	Chp 5
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8:45	Crushing
	Other Benefaction
	Screening
	Sand Production
	Segregation
	Stockpiling and Handling
	Degradation
	Contamination
	Retrieval

Segregation

8:45 To 9:00	Video	Dave Hamilton Lee Randell Kurt Sommer
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Test Equipment

9:00 to 9:30	Suggestions	Stu Schwotzer (Jim Fletcher)	Chp 8
	Manufacturers & Cost		Handout

9:30 to 9:45	** BREAK **
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Lab Layout

9:45 to 10:15	Suggestions	Bob Lingerfelt Jim Schultz George Williams
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## Tuesday Morning ( continued )

### Test Equipment Verification

10:15 to 10:45	Procedures	Bart Williamson	Chp 8 ITM 211-9.0 Appendix A
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### Production Sampling

10:45 to 11:15	Sampling Techniques	Bob Lingerfelt Jim Schultz George Williams	Chp 9
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### Stockpile Sampling

11:15 to 11:45	Safety	Dave Hamilton Lee Randell Kurt Sommer	Chp 9
	Sampling Technique		Chp 9/Video
	Sample Reduction & Sample Size		Chp 9/Video

### Aggregate Testing

11:45 to 12:00	Decant	Dave Hamilton Lee Randell Kurt Sommer	Chp 10/Video
	Sieve Analysis		Chp 10/Video
	Sieve Analysis (Dense Graded)		Chp 10/Video
	Fineness Modulus		Chp 10
	Moisture		Chp 10
	Coarse Aggregate Angularity		Chp 10
	Non-Durable Particles		Chp 10
	Flat and Elongated Particles		Chp 10
	Frequency		Chp 11
	Homework Problems		Handouts

12:00 to 1:00

\*\* LUNCH \*\*

**Tuesday Afternoon**  
Moderator: Bob Rees

Aggregate Testing (continued)

1:00 to 2:30		Dave Hamilton Lee Randell Kurt Sommer	Chp 10/Chp 11
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2:30 to 2:45                      \*\* BREAK

Aggregate Testing ( continued )

2:45 to 3:45		Dave Hamilton Lee Randell Kurt Sommer	Chp 10/Chp11
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Diary

3:45 to 4:00	CAPP Requirements Typical Diary Examples	Bob Lingerfelt Jim Schultz George Williams	ITM 211 (10.0) Chp 11
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Help Session

7:30	Holiday Inn Express:	Bob Lingerfelt/Jon Havens Deana Jones/Rich Brooks/ George Williams Dave Hamilton/Stu Schwotzer	
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**Wednesday Morning**  
Moderator: Ron Walker

Aggregate Testing Homework Review

8:00 to 8:15	Answers & Discussion Math Revue	Ron Walker	Handout
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Quality Control Plans

8:15 to 9:00	CAPP QCP Requirements INDOT QCP Checklist QCP Addenda	Ron Walker	Chp 7 Chp 7
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9:00 to 9:45	Producer QCP's	Trent Sanders (Jon Havens / Rich Brooks)	Chp 7 Chp 7
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9:45 to 10:00                      \*\* BREAK \*\*

Aggregate Production Statistical Control

10:00 to 10:15	CAPP Requirements	Ron Walker	ITM 211
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10:15 to 12:00	Statistical Quality Control Statistical Concepts	Jim Plew Chuck Sanders George Williams	Chp 6
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Z Value

Percent Compliance

Letter Counting Exercise

12:00 to 1:00                      \*\* LUNCH \*\*

## Wednesday Afternoon

Moderator: Bob Rees

### Aggregate Production Statistical Control (continued)

1:00 to 2:00	Control Chart Concepts  Control Chart Construction  Control Chart Interpretation	Ron Walker/Chuck Sanders (Bob Rees/Jim Plew/ George Williams/ Mark Rademaker)	Chp 6 ITM 211 (13.4)
2:00 to 2:15	** BREAK **		
2:15 to 4:00	Product Set Up  Process Control  Understanding the Process & Steps for Managing Quality	Jim Plew Chuck Sanders George Williams	Chp 6

### Help Session

7:30	Holiday Inn Express:	Jim Plew/Chuck Sanders Trent Sanders/Bob Lingerfelt/Mark Rademaker Trina Smart/Jon Havens/ George Williams Stu Schwotzer/Rich Brooks
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**Thursday**  
Moderator: Bob Rees

Lab Demonstration at INDOT Materials Management

(Bus leaves at 7:30)

8:00 to 12:00		Bob Rees Brad Williamson, Eric Woodings Al Witty, Jim Plew Trinia Smart, Stu Schwotzer Bart Williamson
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12:30 to 1:30                      \*\* LUNCH \*\*

Statistical Homework Review

1:30 to 1:45	Answers & Discussion	Bob Rees	Handout
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Audits

1:45 to 2:00	INDOT Audits	Bob Rees	Appendix D
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2:00 to 2:15                      \*\* BREAK \*\*

Customer Expectations

2:15 to 2:45	Producer Perspective (CAPP)	George Williams (Ken Wanstrath)
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2:45 to 3:15	Contractor Perspective (PCCP)	Dick Newell
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3:15 to 3:45	Contractor Perspective (HMA)	Dudley Bonte
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Review Session (Voluntary)

3:45 to 5:00		Bob Rees Ron Walker
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Help Session

6:30	Holiday Inn Express:	Bob Lingerfelt/Jon Havens/ Jim Plew Trent Sanders/John Yzenas/Stu Schwotzer Trina Smart/George Williams/Rich Brooks (Computer Demonstration – Jon Havens, John Yzenas)
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**Friday Morning**  
Moderator: Bob Rees

Course Exam

8:00  
to  
12:00