

**IOWA DOT TTCP CLASSES**  
**LAB TESTING GUIDELINES PER CLASS**  
**Updated 10/24/23**

**Minimum Expectations:**  
Can always expose students to more if time and equipment allows.  
Least Exposure      →      →      →      →      Most Exposure

<b>AGG Technician</b>	<b>Discuss Only</b>	<b>Math Only</b>	<b>Demo or Video</b>	<b>Groups (3-4)</b>	<b>Partners (2)</b>	<b>Each Student</b>
Splitting & Quartering				x		
Fine Gradation				x		
Fineness Modulus (use #'s from fine gradation)				x		
Coarse Gradation w/separate wash				x		
Combined Gradation no reduction (12" sieves)				x		
Combined Gradation w/reduction	x					
Shale			x			
Clay Lumps			x			
Specific Gravity (Fine & Coarse)			x			
Free Moisture		x				
Fractured Particles	x					
<b>HMA Sampler</b>	<b>Discuss Only</b>	<b>Math Only</b>	<b>Demo or Video</b>	<b>Groups (3-4)</b>	<b>Partners (2)</b>	<b>Each Student</b>
Gmb - field core			x			
Measure Field Core			x			
<b>HMA Level I</b>	<b>Discuss Only</b>	<b>Math Only</b>	<b>Demo or Video</b>	<b>Groups (3-4)</b>	<b>Partners (2)</b>	<b>Each Student</b>
Splitting					x	
Make a Gyratory Specimen						x
G <sub>mb</sub>						x
G <sub>mm</sub>						x
G <sub>mb</sub> - field core						x
Measure field core						x

<b>HMA Level II</b>	<b>Discuss Only</b>	<b>Math Only</b>	<b>Demo or Video</b>	<b>Groups (3-4)</b>	<b>Partners (2)</b>	<b>Each Student</b>
Aggregate Absorption (Fine and Coarse)					x	
Gsb (fine and coarse)					x	
Fine Aggregate Angularity					x	
Flat & Elongated					x	
Sand Equivalent			x			
Batch & Mix					x	
Make a Gyratory Specimen					x	
Gmm					x	
Gmb					x	
<b>PCC Level I</b>	<b>Discuss Only</b>	<b>Math Only</b>	<b>Demo or Video</b>	<b>Groups (3-4)</b>	<b>Partners (2)</b>	<b>Each Student</b>
Temperature						x
Calibrate Air Pot					x	
Air						x
Slump						x
Unit Weight		x				
Make a Beam					x	
Break a Beam					x	
Make a Cylinder			x			
Break a Cylinder			x			
9 point			x			
Flowable Mortar			x			
TTF		x				
<b>Soils</b>	<b>Discuss Only</b>	<b>Math Only</b>	<b>Demo or Video</b>	<b>Small Groups</b>	<b>Partners (2)</b>	<b>Each Student</b>
Moisture Content				x		
Proctor Density				x		