2025 SB101 PROFICIENCY INSTRUCTIONS

DUE DATE: November 3, 2025

This sample is for the 2025 Statewide Soils and Aggregates Proficiency Program. The SB101 Certified Specialist, to whom this sample is addressed, needs to receive it promptly so they can proceed with testing. SB Proficiency consists of five tests.

IMPORTANT NOTE: Soils and Aggregates Proficiency must be run independently by each SB101 Specialist. All tests must be performed according to the applicable test procedures. Participation in the Proficiency Program is **mandatory**. Failure to participate will result in inactive certification.

Tex-110-E, Part I, Sieve Analysis of Material retained on the 425µm (No. 40) Sieve

1. Use the entire coarse aggregate sample provided.
2. Use the following sieves: 1 ¾", 7/8", 5/8", 3/8", No. 4, No. 40.
3. Retain the material passing the No. 40 sieve (soil binder) from the dry shake and slaking process to perform Tex-104-E, Tex-105-E, Tex-106-E, and Tex-107-E.
4. Use Site Manager form tx110.xlsm. (Once form is downloaded: save a copy, open the copy, enable editing, select "read only" and then input data)

Tex-104-E, Determining Liquid Limits of Soils - Part II, One Point Method, Tex-105-E, Determining Plastic Limit of Soils, Tex-106-E, Calculating the Plasticity Index of Soils

1. Use the soil binder obtained from Tex-110-E, Part I.
2. Use Site Manager form Tx104-6.xlsm.

Tex-107-E, Determining the Bar Linear Shrinkage of Soils

1. Use the soil binder obtained from Tex-110-E, Part I.
2. Use Site Manager form Tx107.xlsm.

Access Site Manager forms to calculate test results at the following website: https://www.txdot.gov/inside-txdot/forms-publications/consultants-contractors/forms/site-manager.html.

Submit and upload test results by November 3, 2025, at www.txhmac.org.

Contact the HMAC at (512) 312-2099 if you have trouble logging in or submitting your results.

2025 SB101 PROFICIENCY WORKSHEET

This worksheet will be used to hand calculate your 2025 Soils and Aggregates Proficiency results. Keep this worksheet until you have received the final proficiency report.

Submit and upload results by **November 3, 2025**, at www.txhmac.org.

CERTIFIED SPECIALIST	
CERTIFICATION #	

TEX-110-E, SIZE ANALYSIS (PART I)

Initial Dry Weight [nearest 0.1g]			
Sieve Size	Individual weight retained [nearest 0.1g]	Cumulative weight retained [nearest 0.1g]	Cumulative % retained [nearest whole #]
1¾"			
7/8"			
5/8"			
3/8"			
#4			
#40			
-#40			
Final Weight [nearest 0.1g]			

TEX-104-E, LIQUID LIMITS	Tare Weight [nearest 0.01g]		**TEX-105-E, PLASTIC LIMIT**	Tare Weight [nearest 0.01g]	
	Wet Weight [nearest 0.01g]			Wet Weight [nearest 0.01g]	
	Dry Weight [nearest 0.01g]			Dry Weight [nearest 0.01g]	
	# of Blows			Plastic Limit [nearest whole %]	
	Liquid Limit [nearest whole %]				
	TEX-106-E, CALCULATING PLASTICITY INDEX			Plasticity Index [nearest whole #]	

TEX-107-E, BAR LINEAR SHRINKAGE	Length of Dry Soil Bar [nearest whole %]	
	Linear Shrinkage [nearest whole %]	

Please list the **exact date** each of the following tests was performed:

Tex-110-E: _____ **Tex-104/105/106-E:** _____ **Tex-107-E:** _____