Laboratory Assessment Preparation List

General Assessment Guidance*: This document is intended to provide guidance for laboratories preparing for an AMRL On-Site Laboratory Assessment, specifically with regard to the preparation and availability of materials required for demonstration of the test method(s). Preparing for the assessment will improve the efficiency, productivity, and benefit of the assessment for the laboratory.*

This document does not address all of the apparatus and procedural requirements which may be evaluated during the assessment. Please consult the applicable AASHTO or ASTM standard for specific requirements. The laboratory may elect to demonstrate the AASHTO, ASTM, or both versions of the test method. The laboratory should be prepared to present required apparatus and to perform the test method in its entirety. Please contact AMRL at (240) 436-4900 if your laboratory has additional questions with regard to preparing for the On-Site Assessment.

AASHTO	ASTM	Hot Mix Assessment Preparation
R47		Have a heated sample ready to be reduced. Be prepared to demonstrate one of the three procedures completely.
R59	**D1856**	Prepare extractant from test method T164/D2172 and to demonstrate the asphalt recovery procedure.
T30	**D5444**	Prepare an extraction (T164/D2172) or ignition oven (T308/D6307) sample prior to the assessment or retain the sample completed during assessment demonstration. If a previously obtained sample is used, assessors will expect all masses to be recorded for the various stages of the test.
T110	**D1461**	Pre-heat a hot-mix sample and prepare to demonstrate proper drip rates and perform calculations at the completion of the test.
T164	**D2172**	Pre-heat a hot-mix sample and prepare to demonstrate the full extraction process and mineral matter determination on all solvent extract. Mineral matter determination can be from a previously obtained sample if the lab retains it in a sealed container and records all data. Gradation analysis of the extracted aggregate is covered separately by test procedures T30/D5444.
T166	**D2726**	Have a dry, compacted, or cored specimen at room temperature.
T167	**D1075** **D1074**	Prepare to mix a sample and perform the mixing procedure, compaction of the specimen, and testing the specimen. If the laboratory does not mix samples in-house, the sample should be heated to compaction temperature. An additional sample may be previously compacted and moisture conditioned (D1075) or ready to demonstrate the strength testing portion of the procedure.
T209	**D2041**	Have a sample ready to be placed in the vacuum bowl. Be able to demonstrate the sample preparation procedures, the vacuuming procedure, the weighing in water or weighing in air procedure, and be capable of completing all calculations at the conclusion of testing.
T245	**D6926** **D6927**	Prepare to mix a sample and perform the mixing procedure, compaction of the specimen, and testing the specimen. If the laboratory does not mix samples in-house, the sample should be heated to compaction temperature. Compact a specimen for stability and flow testing prior to the assessment to save cooling time.
T246 **T247**	**D1560** **D1561**	Prepare to mix a sample and perform the mixing procedure and compaction of the specimen. If the laboratory does not mix samples in-house, the sample should be heated to compaction temperature. Prepare stabilometer for testing and calibration.

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AASHTO	ASTM	Hot Mix Assessment Preparation (Continued)
T269	**D3203**	The laboratory will not have to prepare a sample. Percent air voids will be calculated from the results of T166/D2726 and T209/D2041 data recorded during the assessment.
T275	**D1188**	Have a dry, compacted or cored specimen at room temperature. If the lab is running both AASHTO and ASTM, both the AASHTO paraffin and ASTM parafilm procedures must be demonstrated.
T283	**D4867**	Prepare a minimum of three compacted specimens prior to the assessment, having one for the dry set, one for the freeze-thaw cycle set, and one that is ready to be saturated. All data for percent air voids and saturation should be retained for the assessor's review on the first two specimens.
T287	**D4125**	Prepare to mix a sample. If the laboratory does not mix samples in-house, heat a specimen to compaction temperature. The standard count procedure and records will also be evaluated. The technician will be required to explain calibration procedures and present corresponding records for the mix being used for testing.
T305	**D6390**	Have a dry pre-mixed asphalt sample ready to be weighed into the baskets.
T308	**D6307**	Have a dry pre-mixed asphalt sample ready to be weighed into the baskets and the oven pre-heated to test temperature. Be prepared to explain correction factor determination procedures and present correction factors determined using the laboratories own oven for the mix being used for testing.
T312	**D6925**	Prepare to mix a sample. If the laboratory does not mix samples in-house, heat a specimen to compaction temperature.
T324		Have a compacted sample ready to be loaded into the testing machine and a completed test sample ready to be measured.
T329		Have a field or plant produced sample ready to be tested.
T331	**D6752**	Have a dry, compacted or cored specimen at room temperature. Be prepared to perform all calculations at the completion of the test including correcting for the specific gravity of the plastic bags.
	D2950	Have a nuclear gauge available for test demonstration on-site. The assessor will view the standard count determination, as well as backscatter. Ensure a test site area is prepared and available to demonstrate the procedure. If necessary, please coordinate the availability of a field technician to demonstrate the test prior to the assessment. Current gauge calibration records and standard count records will be examined.
	D5404	Prepare extractant from test method T164/D2172 prior to testing.
	D6931	Have a compacted specimen in accordance with one of the specified test methods listed in D6931. Be able to demonstrate measuring, conditioning, and testing of the specimen.

State		Hot Mix Assessment Preparation - Other Methods
CP-L 5106		Prepare to mix a sample and perform the mixing procedure and compaction of the specimen. If the laboratory does not mix samples in-house, the sample should be heated to compaction temperature. Prepare stabilometer for testing and calibration.
CP-L 5115		Prepare to mix a sample. If the laboratory does not mix samples in-house, heat a specimen to compaction temperature.
PTM 702		Pre-heat a hot-mix sample and prepare to demonstrate the full extraction process and mineral matter determination on all solvent extract. Mineral matter determination can be from a previously obtained sample if the lab retains it in a sealed container and records all data.
PTM 715 **PTM 716**		Have a dry, compacted, or cored specimen at room temperature.
PTM 739		Prepare a sample prior to the assessment or retain the sample completed during assessment demonstration. If a previously obtained sample is used, assessors will expect all masses to be recorded for the various stages of the test.
PTM 757		Have a dry pre-mixed asphalt sample ready to be weighed into the baskets and the oven pre-heated to test temperature.
PTM T209m		Have a sample ready to be placed in the vacuum bowl. Be able to demonstrate the sample preparation procedures, the vacuuming procedure, the weighing in water or weighing in air procedure, and be capable of completing all calculations at the conclusion of testing.
TEX-206-F		Prepare to mix a sample. If the laboratory does not mix samples in-house, heat a specimen to compaction temperature.

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