

Nebraska Asphalt Field Technician Certification Training

Pre-Test

Materials and Research Division – Nebraska Department of Transportation

Name (Printed): _____

1. What is the hierarchy of Documentation?
 - a. Standard Spec overrides the Plans; plans override the Special Provisions .
 - b. Plans override the Special Provisions; Special Provisions override the Spec Book.
 - c. Special Provisions override the Plans; plans override the Spec Book.
 - d. All the above.

2. The temperature of the asphaltic concrete mixture shall be produced between _____.
 - a. 300°F -400°F
 - b. 300°F -325°F
 - c. 300°F -350°F
 - d. 300°F -375°F

3. What type of Drum Plant does the aggregate and heat flow in the same direction?
 - a. Parallel Flow Drum.
 - b. Counterflow Drum.
 - c. Double Barrel Drum.
 - d. None of the Above.

4. When storing Material in The Plant Silos _____ (Note: Not the Surge Bin)
 - a. Material shouldn't differ from plant material.
 - b. Should be emptied at the end of each day.
 - c. Plant can have a surge bin.
 - d. All the Above.

5. When can the contractor diesel the truck beds?
 - a. Beginning of the day.
 - b. Throughout the day.
 - c. At the end of the day.
 - d. All the above.

6. What type of mix is utilized for Shoulder Paving?
 - a. SPR.
 - b. SPH.
 - c. SLX.
 - d. SPS.

7. What is the procedure after Milling?
 - a. Tack.
 - b. Patching.
 - c. Cleaning roadway surface.
 - d. New Layer of asphalt.

8. When the tack is "broke" it will ____?
 - a. Be black in color with less sheen.
 - b. Be wet, shiny and brown.
 - c. Not have moisture and be brown.
 - d. All the Above.

9. The Augers on the paver Shall ____?
 - a. Evenly disperse Asphalt across the Screed width.
 - b. Not be over/under loaded.
 - c. Reach the outer limits of the Screed.
 - d. All the Above.

10. If the contractor elects to use a notched wedge joint, adjacent lanes must still be matched up each day.
 - a. True.
 - b. False.

11. When Compacting Asphalt ____?
 - a. The roller Wheels shall be smooth and free from defects.
 - b. The roller shall have adjustable spring scrappers that are fitted to roller
 - c. The roller shall make long gradual sweeping turns.
 - d. All the Above.

12. When a PG binder or Asphalt Emulsion sample is taken, how much material is required to pass through the sample valve first?
 - a. None.
 - b. One Quart.
 - c. Two Quart .
 - d. One Gallon.

13. The usual sampling frequency for Asphalt is:
- One sample per each 1000 ton subplot tested by the Contractor.
 - One sample per week tested by the Branch Lab.
 - One sample per lot tested by the Contractor.
 - None of the above.
14. The RSS Stands for _____?
- Random Scheduled Sample.
 - Random Sample Schedule.
 - Random Sample Sheet.
 - Really Simple Syndication.
15. Cold feed samples for subplot FAA/CAA tests should be taken:
- After the HMA subplot is sampled on the roadway.
 - At the end of each production day.
 - When the plant operator has time to “hot – stop” the plant.
 - To represent the same material as the HMA subplot sample on the roadway.
16. If the FAA or Air Voids Testing is not within Tolerances _____?
- QC Acceptance will happen
 - IA Review will not be triggered
 - NDOT Test results will be used to calculate pay factors.
 - All the Above.
17. If 2 density cores are low and bring the lot average down so the pay factor will be less than 1.00, what option(s) is/are allowed:
- Re-cut how many new cores are requested by the contractor.
 - Re-cut the 2 low cores at new random locations and use them to figure a new lot average.
 - Re-cut all 5 cores at new random locations and use them to figure a new lot average.
 - Re-cut all 5 cores at new random locations and use whichever average of 5 is higher.

18. When it comes to Sample custody the most important rule to remember is as follows:
- a. Once the sample has been obtained needs to always remain stored in a vehicle.
 - b. Once the sample has been obtained needs to always remain in the inspector's custody.
 - c. Once the sample has been obtained needs to always remain at the Contractors Lab.
 - d. None of the Above

19. Calculate the tons per station for an SPR mix, on a 14' wide roadway, with a 2" lift (Note: Use 140 lbs/cu. ft)

- a. 17.6
- b. 16.3
- c. 14.5
- d. 196

20. What method should be used when compacting super-elevated curves?

- a. Start at the high side and roll toward the low side
- b. Progress from the low side to the high side
- c. Start in the middle of the lane and roll to the high side and then the low side
- d. None of the above