**CDX Distance Learning**

**Exercise #22**

**Oxygen Sensor & Trim Inspection**

**Student Name:** Click or tap here to enter text.

Click or tap the check box next to the answer choice that best completes the statement or answers the question. Viewing the animations will be required to answer the following questions correctly. Read the question and use the link provided in each section to open the animation. Follow the directions in the questions and select the correct answer. When complete, close the animation window and move on to the next question(s).

[**O2 Sensor & Fuel Trim Animation 1**](http://d2jw81rkebrcvk.cloudfront.net/assetscdx2/202003%20-%20COVID/Assessments/MS/ANIM/GF/GF_O2FT_Ass01_C1/GF_O2FT_Ass01_C1/GF_O2FT_Ass01_C1.html)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1. Are both the front and rear O2 sensors functioning properly?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 2. Is the short-term fuel trim (STFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 3. Is the long-term fuel trim (LTFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 4. Is the catalytic converter properly reducing emissions?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5. Utilizing the scan tool data provided in the animation, what is the root cause of the readings?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Normal operation |
|  [ ]  | b.  | Rich fuel condition |
|  [ ]  | c.  | The catalyst is faulty |
|  [ ]  | d.  | Lean fuel condition |

 |

[**O2 Sensor & Fuel Trim Animation 2**](http://d2jw81rkebrcvk.cloudfront.net/assetscdx2/202003%20-%20COVID/Assessments/MS/ANIM/GF/GF_O2FT_Ass02_C1/GF_O2FT_Ass02_C1/GF_O2FT_Ass02_C1.html)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 6. Are both the front and rear O2 sensors functioning properly?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |
| 7. Is the short-term fuel trim (STFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |
| 8. Is the long-term fuel trim (LTFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 9. Is the catalytic converter properly reducing emissions?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10. Utilizing the scan tool data provided in the animation, what is the root cause of the readings?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Normal operation |
|  [ ]  | b.  | Rich fuel condition |
|  [ ]  | c.  | The catalyst is faulty |
|  [ ]  | d.  | Lean fuel condition |

 |

[**O2 Sensor & Fuel Trim Animation 3**](http://d2jw81rkebrcvk.cloudfront.net/assetscdx2/202003%20-%20COVID/Assessments/MS/ANIM/GF/GF_O2FT_Ass03_C1/GF_O2FT_Ass03_C1/GF_O2FT_Ass03_C1.html)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 11. Are both the front and rear O2 sensors functioning properly?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 12. Is the short-term fuel trim (STFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 13. Is the long-term fuel trim (LTFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 14. Is the catalytic converter properly reducing emissions?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15. Utilizing the scan tool data provided in the animation, what is the root cause of the readings?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Normal operation |
|  [ ]  | b.  | Rich fuel condition |
|  [ ]  | c.  | The catalyst is faulty |
|  [ ]  | d.  | Lean fuel condition |

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[**O2 Sensor & Fuel Trim Animation 4**](http://d2jw81rkebrcvk.cloudfront.net/assetscdx2/202003%20-%20COVID/Assessments/MS/ANIM/GF/GF_O2FT_Ass04_C1/GF_O2FT_Ass04_C1/GF_O2FT_Ass04_C1.html)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 16. Are both the front and rear O2 sensors functioning properly?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |
| 17. Is the short-term fuel trim (STFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 18. Is the long-term fuel trim (LTFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 19. Is the catalytic converter properly reducing emissions?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20. Utilizing the scan tool data provided in the animation, what is the root cause of the readings?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Normal operation |
|  [ ]  | b.  | Rich fuel condition |
|  [ ]  | c.  | The catalyst is faulty |
|  [ ]  | d.  | Lean fuel condition |

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[**O2 Sensor & Fuel Trim Animation 5**](http://d2jw81rkebrcvk.cloudfront.net/assetscdx2/202003%20-%20COVID/Assessments/MS/ANIM/GF/GF_O2FT_Ass05_C1/GF_O2FT_Ass05_C1/GF_O2FT_Ass05_C1.html)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 21. Are both the front and rear O2 sensors functioning properly?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 22. Is the short-term fuel trim (STFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 23. Is the long-term fuel trim (LTFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 24. Is the catalytic converter properly reducing emissions?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25. Utilizing the scan tool data provided in the animation, what is the root cause of the readings?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Normal operation |
|  [ ]  | b.  | Rich fuel condition |
|  [ ]  | c.  | The catalyst is faulty |
|  [ ]  | d.  | Lean fuel condition |
|  |  |  |

 |

[**O2 Sensor & Fuel Trim Animation 6**](http://d2jw81rkebrcvk.cloudfront.net/assetscdx2/202003%20-%20COVID/Assessments/MS/ANIM/GF/GF_O2FT_Ass06_C1/GF_O2FT_Ass06_C1/GF_O2FT_Ass06_C1.html)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 26. Are both the front and rear O2 sensors functioning properly?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |
| 27. Is the short-term fuel trim (STFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 28. Is the long-term fuel trim (LTFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 29. Is the catalytic converter properly reducing emissions?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30. Utilizing the scan tool data provided in the animation, what is the root cause of the readings?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Normal operation |
|  [ ]  | b.  | Rich fuel condition |
|  [ ]  | c.  | The catalyst is faulty |
|  [ ]  | d.  | Lean fuel condition |

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[**O2 Sensor & Fuel Trim Animation 7**](http://d2jw81rkebrcvk.cloudfront.net/assetscdx2/202003%20-%20COVID/Assessments/MS/ANIM/GF/GF_O2FT_Ass07_C1/GF_O2FT_Ass07_C1/GF_O2FT_Ass07_C1.html)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 31. Are both the front and rear O2 sensors functioning properly?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 32. Is the short-term fuel trim (STFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 33. Is the long-term fuel trim (LTFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 34. Is the catalytic converter properly reducing emissions?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 35. Utilizing the scan tool data provided in the animation, what is the root cause of the readings?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Normal operation |
|  [ ]  | b.  | Rich fuel condition |
|  [ ]  | c.  | The catalyst is faulty |
|  [ ]  | d.  | Lean fuel condition |

 |

[**O2 Sensor & Fuel Trim Animation 8**](http://d2jw81rkebrcvk.cloudfront.net/assetscdx2/202003%20-%20COVID/Assessments/MS/ANIM/GF/GF_O2FT_Ass08_C1/GF_O2FT_Ass08_C1/GF_O2FT_Ass08_C1.html)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 36. Are both the front and rear O2 sensors functioning properly?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 37. Is the short-term fuel trim (STFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 38. Is the long-term fuel trim (LTFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 39. Is the catalytic converter properly reducing emissions?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 40. Utilizing the scan tool data provided in the animation, what is the root cause of the readings?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Normal operation |
|  [ ]  | b.  | Rich fuel condition |
|  [ ]  | c.  | The catalyst is faulty |
|  [ ]  | d.  | Lean fuel condition |

 |

[**O2 Sensor & Fuel Trim Animation 9**](http://d2jw81rkebrcvk.cloudfront.net/assetscdx2/202003%20-%20COVID/Assessments/MS/ANIM/GF/GF_O2FT_Ass09_C1/GF_O2FT_Ass09_C1/GF_O2FT_Ass09_C1.html)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 41. Are both the front and rear O2 sensors functioning properly?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 42. Is the short-term fuel trim (STFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 43. Is the long-term fuel trim (LTFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 44. Is the catalytic converter properly reducing emissions?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 45. Utilizing the scan tool data provided in the animation, what is the root cause of the readings?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Normal operation |
|  [ ]  | b.  | Rich fuel condition |
|  [ ]  | c.  | The catalyst is faulty |
|  [ ]  | d.  | Lean fuel condition |

 |

[**O2 Sensor & Fuel Trim Animation 10**](http://d2jw81rkebrcvk.cloudfront.net/assetscdx2/202003%20-%20COVID/Assessments/MS/ANIM/GF/GF_O2FT_Ass10_C1/GF_O2FT_Ass10_C1/GF_O2FT_Ass10_C1.html)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 46. Are both the front and rear O2 sensors functioning properly?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 47. Is the short-term fuel trim (STFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 48. Is the long-term fuel trim (LTFT) reading normal?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 49. Is the catalytic converter properly reducing emissions?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Yes |
|  [ ]  | b.  | No |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 50. Utilizing the scan tool data provided in the animation, what is the root cause of the readings?

|  |  |  |
| --- | --- | --- |
|  [ ]  | a.  | Normal operation |
|  [ ]  | b.  | Rich fuel condition |
|  [ ]  | c.  | The catalyst is faulty |
|  [ ]  | d.  | Lean fuel condition |

 |