



## PREVENTIVE MAINTENANCE — HDTT 1212

### A. Course Description

- **Credits:** 4.00
- **Lecture Hours/Week:** 2.00
- **Lab Hours/Week:** 2.00
- **OJT Hours/Week:** 0
- **Prerequisites:** None
- **Corequisites:** None
- **MnTC Goals:** None

This course covers the importance and proper procedures of preventive maintenance and inspection schedules used for various types of heavy trucks and their applications. Students learn to perform inspections according to the standards of the Department of Transportation (D.O.T.) This course also offers the opportunity to participate in taking the test for certified inspector through the state of Minnesota. Prerequisites: None

### B. Course Effective Dates: 3/22/98 – Present

### C. Outline of Major Content Areas

As noted on course syllabus

### D. Learning Outcomes

1. adjust auto-slack adjusters manually
2. adjust clutch
3. adjust s-cam brakes
4. bleed luberfiner oil filter
5. change cooling system filter
6. change dry-type air filter
7. change engine fuel filter(s)
8. change engine oil
9. change engine oil filter(s)
10. change luberfiner oil filter
11. check air cleaner restriction
12. check auto-slack brake adjustment
13. check brake adjustment
14. check differential lube level

15. check manual steering sector lube level
16. check power steering lube level
17. check steering axle lube/hub levels
18. check transmission lube level
19. describe air induction system inspection
20. describe air system inspection
21. describe brake system inspection
22. describe cab inspection
23. describe cooling system inspection
24. describe differential inspection
25. describe electrical system inspection
26. describe engine inspection
27. describe exhaust system inspection
28. describe fifth wheel inspection
29. describe frame inspection
30. describe greasing techniques
31. describe heating system inspection
32. describe king pin inspection
33. describe lubrication inspection
34. describe new truck inspection
35. describe rear suspension inspection
36. describe steering axle inspection
37. describe steering axle suspension insp.
38. describe tie rod inspection
39. describe tire inspection
40. describe trailer body inspection
41. describe transmission inspection
42. develop a inspection
43. develop b inspection
44. develop c inspection
45. develop d inspection
46. identify all grease fitting areas
47. identify p. m. intervals
48. identify p.m. applications
49. identify preventive maintenance purposes
50. identify trailer brake inspection
51. identify trailer electrical inspection
52. identify trailer frame inspection
53. identify trailer suspension inspection
54. inspect brake shoes

55. perform a inspection
56. perform b inspection
57. perform c inspection
58. perform d inspection
59. perform safety equipment inspection
60. test anti-freeze strength

**E. Minnesota Transfer Curriculum Goal Area(s) and Competencies**

**F. Learner Outcomes Assessment**

As noted on course syllabus

**G. Special Information**

None noted