

General Crane Safety Instructor Guide Changes for Revision 03

Introduction

1. Added an Introduction module to the course

NAVFAC P-307 Training Overview

2. Added a NAVFAC P-307 Training Overview module title and opening screen noting that “This module is not needed for ILT. For Web-Based Training (WBT), it should be reviewed online”.

NAVFAC P-307

3. Added “for operation” to the end of the NAVFAC P-307/Objectives narration paragraph and modified the screen with similar.
4. Modified the wording of the Purpose screen and narration.
5. Modified the narration, and screen wording of the Applicability section.
6. Added additional wording to the narration in the Maintenance and Inspection Requirements section.
7. Updated/changed the screen of the Posting of Certification Information section with a picture of a Certification of Load Test and Condition Inspection form.
8. Deleted/removed the two questions in Knowledge Check 1 and replaced with new questions.
9. Moved NAVFAC P-307/Knowledge Check 1 in front of Overview Section 1
10. Added a Crane Components section after Category 1 Cranes
11. Removed the word “dual” from the screen and narration paragraph in the Straddle Type section
12. Modified the bulleted text on the Rubber Tire Gantry topic screen
13. Modified the narration and screen text under the CAT 2 and 3 Cranes topic
14. Added a Knowledge Check section after the Cat 2 and 3 Crane Examples topic
15. Moved the Category 4 topic after the Components tab under the Cat 4 Cranes topic
16. Modified the Considerations tab screen text (screen after the Pedestal topic)
17. Added a Maintenance, Certification, and Alterations topic after the Category 4 Cranes topic
18. Modified the narration and screen text in the Licensing (Sections 6, 7, and 8) topic
19. Added an Operator Training topic after the Licensing topic
20. Removed the Knowledge Check after the Operator Training topic
21. Added an Operator Checks (Section 9) after Operator Training
22. Added Operation Safety and Additional Requirements (Sections 10 and 11) section after Operator Checks
23. Added “and 5100.23” to the end of the first paragraph of the narration in the Accidents (Section 12) topic

24. Modified the first sentence of the Training (Section 13) topic and deleted “All Personnel must be trained. The screen was also modified to similar.
25. Modified Knowledge Check 3 after Rigging Gear and Miscellaneous Equipment (Section 14)
26. Deleted the NAVFAC P-307 Module Exam Questions and Answers after the Summary topic

Crane Components

27. Added a Types of Power topic after the Instructional Objectives topic
28. Changed the word “section” to “appendix” in the last sentence narration in the Crane Components topic
29. Added a Knowledge Check after the Load-controlling Parts topic
30. Modified the narration of the Limit Switches topic to include the purpose of an upper limit switch and the definition of two-blocking
31. Added a Knowledge Check after the General Safety Devices topic
32. Deleted the Crane Components Module Exam Questions and Answers section

Operator’s Daily Checklist (ODCL)

33. Modified the first sentence of the narration and the screen text in the Introduction topic
34. Added a Knowledge Check after the Sections topic
35. Added Warning Tags, Danger Tags, Caution Tags, Out of Service Tags, Lockout Tags, and Who Can Remove These Tags topics after the Knowledge Check
36. Modified the narration of the last sentence in the Critical Components topic
37. Modified the narration in the Unsatisfactory Conditions topic
38. Added a Knowledge Check after the Recording topic
39. Added Safety Guards and Plates, General Hardware, Wire Rope and Reeving, Block and Hook, Sheaves or Sprockets, Boom and Jib, and Gantry, Pendants, and Boom Stops topics after the Walk Around Check topic
40. Modified the screen and narration of the Walkways, Ladders, and Handrails topic
41. Added Windlocks, Stops, and Bumpers, Tires, Wheels, and Tracks, Leaks, Outriggers and Stabilizers, Load Chain, and Area Safety topics after Walkways, Ladders, and Handrails
42. Deleted the Structure, Rail Sweeps and Bumpers, General Hardware, Bridge and Trolley Structure, Trolley and Rail Stops, and Safety Guards and Plates topics
43. Modified the narration and screen picture and text in the Housekeeping topic
44. Moved the Lubrication topic after Leaks
45. Added a Diesel Engine and Generator topic after Housekeeping
46. Added/modified the bulleted text on the Leaks topic screen
47. Modified the narration and screen text in the Lubrication topic

48. Added a Battery, Lights, and Glass topic after Lubrication
49. Deleted the Brake Linings topic and added a Clutches and Brakes topic after Battery, Lights, and Glass
50. Modified the narration and screen in the Electric Motors topic
51. Added Auxiliary Engine and Compressor, Danger/Caution Tags, Fire Extinguishers, and Hoist Drum Pawls and Ratchets topics after Electric Motors
52. Added a Knowledge Check after the Hoist Drum Pawls and Ratchets topic
53. Modified the narration and screen in the Operator Cab Check topic
54. Deleted the Posting Requirements and Warning Tags topics and added the Gauges, Indicator and Warning Lights topic
55. Modified the narration, screen picture and text
56. Added Load Rating Charts, List and Trim Indicator, Boom Angle/Radius Indicator, Fire Extinguishers, Level Indicator, and Danger/Caution Tags topics after the Visibility topic
57. Modified the screen and narration text in the Operational Check topic
58. Deleted the Cab Controls topic and added the Area Safety, Outriggers and Stabilizers, Unusual Noises, and Control Action topics after Operational Check
59. Modified the title of the Wire Rope topic to Wire Rope or Chain and modified the narration and screen picture and text
60. Deleted the Controls and Brakes topic and added Brakes and Clutches
61. Deleted the Horns and Alarms topic and added the Boom Angle/Radius Indicator, Limit Switches, Emergency Stop, Other Operational Safety Devices, General Safety Devices, and Fleeting Sheaves topics
62. Modified/replaced the Knowledge Check questions after Fleeting Sheaves
63. Deleted the ODCL Module Exam Questions and Answers section

Complex and Non-complex Lifts

64. Modified the screen in the Complex Lifts – Overview topic
65. Modified the narration and screen text of the Complex Lift - Categories topic
66. Changed the topic title of the Supervisor Responsibilities topic to Procedures and modified the narration and screen text
67. Modified the narration and screen text of the Lift Exceptions topic
68. Added a Knowledge Check section after Lift Exceptions
69. Modified the narration and screen text on the Personnel Lifts topic
70. Added a Knowledge Check after the Multiple Crane Lifts topic
71. Deleted the Complex and Non-complex Lifts Module Exam Questions and Answers

Crane Set-Up

72. Added a Knowledge Check after the Route topic
73. Modified the narration of the Barricading topic

- 74. Added a Knowledge Check after Barricading
- 75. Removed the words “per square inch” in the last sentence of the narration in the Firm Surface topic
- 76. Added a Knowledge Check after the Locking Beams topic
- 77. Deleted the Crane Set-up Module Exam Questions and Answers

Determining Load Weight

- 78. Modified the narration of the Determining Weight/Unacceptable Methods topic
- 79. Modified the screen and narration in the Standard Weights of Materials/Finding Weight topic
- 80. Modified the narration of the last sentence in the Load Weight by Area/Calculating Area topic
- 81. Added a sentence to define the height of a triangle in the narration of the Load Weight by Area/Triangle Area topic
- 82. Added a Knowledge Check prior to the Load Weight by Volume/Calculating Volume topic
- 83. Deleted one of the questions in the last Knowledge Check and added three questions

Load Weight Distribution

- 84. Added a sentence to the end of the narration in the Center of Gravity topic
- 85. Modified the narration of the Weight Distribution/# Legs Carry Load topic
- 86. Modified the screen in the Determining Leg Weight topic
- 87. Modified the narration of the Unequal Leg Weight topic
- 88. Added three questions to the Knowledge Check

Sling Angle Stress

- 89. Modified the narration of the Introduction to Sling Angle Stress/Definition topic
- 90. Modified the screen and narration (removed the word “stress” after “angle”) of the Choosing Your Gear topic

Rigging Gear Marking and Record Requirements

- 91. Changed the module title from “Rigging Gear Selection and Use: Markings and Record Requirements” to “Rigging Gear Marking and Record Requirements
- 92. Modified the screen and narration in the NAVFAC P-307 Section 14 topic
- 93. Modified the screen and narration in the Additional Covered Equipment topic
- 94. Modified the screen text and narration in the Equipment Not Covered topic
- 95. Added a Knowledge Check after the Equipment Not Covered topic

96. Modified the screen text (added a bulleted item) and narration in the Equipment Markings topic
97. Modified the screen text and narration in the Wire Rope Endless Slings topic
98. Modified the screen text and narration in the Chain Slings topic
99. Removed the Markings on Below the Hook Lifting Devices topic
100. Modified the narration of the Multi-Part Wire Rope Slings topic
101. Modified the last Knowledge Check

Rigging Gear General Use

102. Changed the module title from “Rigging Gear Selection and Use: General Use” to “Rigging Gear General Use”
103. Modified the screen text in the General Safety Rules topic
104. Modified the narration in the Homemade Gear topic
105. Modified the narration in the Selecting Rigging Gear topic
106. Added a couple of items to the bulleted items on the screen of the Protective Materials topic
107. Modified the narration in the Usage Do’s topic
108. Added 4 questions to the Knowledge Check

Rigging Hardware

109. Changed the title of the “Rigging Gear Selection and Use: Using Rigging Hardware” module to “Rigging Hardware”
110. Modified the narration and screen text in the Side Loading Shackles topic
111. Moved the Eyebolt Types, Non-Shouldered, Shouldered, and Installing Shouldered Eyebolts topics in front of the Engaging Hole topic
112. Modified the narration and screen picture and text in the Shouldered Eyebolts topic
113. Modified the narration of the Installing Shouldered Eyebolts topic
114. Modified the narration and screen text in the Backing Nuts topic
115. Moved the Eye Alignment topic in front of the Shim Use Overview topic
116. Modified the screen title in the Shim Use Overview topic
117. Modified the narration in the Swivel Hoist Rings topic
118. Modified the narration and screen text in the Swivel Hoist Rings (Cont) topic
119. Modified the screen text in the Treaded Attachment Point topic
120. Added a question to the Knowledge Check

Sling Use

121. Changed the title of the “Rigging Gear Selection and Use: Sling Use” module to “Sling Use”
122. Modified the narration and screen text in the Wire Rope (Cont) topic
123. Added a statement to the narration in the Chain Sling Use topic

124. Modified the narration and screen text in the Chain Sling Temperature Restrictions topic
125. Modified the narration and screen text in the Metal Mesh Sling Temperature Restrictions topic
126. Modified the narration and screen text in the Types of Synthetic Slings topic
127. Modified the narration in the Web Sling Use topic
128. Changed the temperature restriction for web slings from “180” to “194” degrees in the narration and screen text of the Web Sling Temperature Restrictions topic.
129. Modified the narration in the Synthetic Rope Use topic
130. Modified the narration and screen text in the Synthetic Rope Sling Temperature Restrictions topic
131. Modified the narration and screen text in the Roundsling Use topic
132. Modified the narration and screen text in the Eye and Hook Considerations topic
133. Modified the narration in the Correct Use topic
134. Modified the narration and screen picture and text in the Choker Hitch Efficiency topic
135. Added a Knowledge Check to the end of the module

Load Charts Module One

136. Added a Knowledge Check after the Deductions topic
137. Added a Knowledge Check after the Structural Failure topic
138. Deleted the Load Charts Module One Exam Questions and Answers

Load Charts Module Two

139. Added a Knowledge Check after the Cat 4 Capacity Chart topic
140. Deleted the Load Charts Module 2 Exam Questions and Answers

Load Charts Module Three

141. Removed the word “next” from the screen text and from the Narration text in the first and third sentences in the Working Between Values/Boom Length topic.
142. Removed the word “next” from the Narration text and modified the wording of the green text box on the screen in the Working Between Values/Boom Angle topic.
143. Added a Knowledge Check after the Calculating Wire Rope Capacity topic.
144. Modified the Screen text and picture and the Narration wording in the Outrigger Positions topic.
145. Added a Knowledge Check after the Wind topic.
146. Deleted the Load Charts Module 3 Exam Questions and Answers section

Load Charts Module 4

147. Changed the Module Exam Questions section to a Knowledge Check and modified the answers to numbers 2, 3, and 5.

Crane Communications

148. Modified the Narration (added a paragraph) in the Radio and Hand Signal Communications/Communication Methods topic.
149. Modified the screen text and Narration in the Radio and Hand Signal Communications/Radio topic.
150. Added a Knowledge Check after the Radio and Hand Signal Communications/Radio topic.
151. Modified the Narration in the Hook and Trolley Signals/Auxiliary topic.
152. Deleted the Quick Check after Magnet Signals and added a Knowledge Check.
153. Deleted the Crane Communications Module Exam Questions and Answers section

Crane Team Concept

154. Added a Knowledge Check after the Team Members topic.
155. Modified the narration in the Common Responsibilities/Communications topic
156. Deleted the Knowledge Check after the Common Responsibilities/Safety Topic
157. Modified the narration in the Crane Operator Responsibilities topic
158. Modified the narration in the Crane Operator Responsibilities /Full Understanding topic
159. Added a Knowledge Check after the Crane Operator Responsibilities/Stop for Safety topic
160. Changed the picture on the screen of the Crane Rigger Responsibilities/Assisting with ODCL topic
161. Changed the picture on the screen of the Crane Walker Responsibilities/Pre-Use Check topic
162. Changed the text and picture on the screen and modified the narration in the Supervisor Responsibilities/Complex Lifts topic
163. Changed the word “authorities” to “personnel” in the narration of the Supervisor Responsibilities/Accidents topic
164. Deleted the next Supervisor Responsibilities/Complex Lifts topic
165. Added a Knowledge Check after the Supervisor Responsibilities/Accidents topic
166. Modified the text in the last bulleted item on the screen for the Rigging Supervisor Responsibilities text box in the Summary topic
167. Deleted the Crane Team Concept Module Exam Questions and Answers

Safe Operations Module 1

- 168. Modified the narration and screen text in the Understand the Crane/Pre-Operational Check topic
- 169. Added a Knowledge Check after the Understand the Crane/Pre-Operational Check topic
- 170. Modified the screen text and narration in the Overhead Power Lines/Overhead Lines topic
- 171. Modified the screen text and narration in the Overhead Power Lines/Limit of Approach topic
- 172. Modified the screen picture and text and narration in the Operations/Operating Practices topic
- 173. Modified the narration in the Operations/Lifting loads topic
- 174. Modified the screen text and narration in the Operations/Landing Loads topic
- 175. Modified the narration in the Operations/Securing the Crane topic
- 176. Deleted the Knowledge Check after the Operations/Securing the Crane topic
- 177. Added a Knowledge Check after the Traveling topic
- 178. Modified the screen text and narration in the Summary topic
- 179. Deleted the Safe Operations Module 1 Exam Questions and Answers

Safe Operations Module 2

- 180. Added a new topic (Engaging the Rotate Lock) after the Mobile Cranes/Operating topic
- 181. Added a Knowledge Check after the Mobile Cranes/Engaging the Rotate Lock topic
- 182. Changed the screen text and narration in the Extendible Boom Cranes – Operating topic
- 183. Added a Knowledge Check after the Mobile Lattice Boom Cranes Securing topic
- 184. Added a Knowledge Check prior to the Summary and Review topic
- 185. Deleted the Safe Operations Module 2 Exam Questions and Answers section

Crane and Rigging Gear Accidents

- 186. Added an Accident Categories topic after the Instructional Objectives topic
- 187. Added a Knowledge Check after the Rigging Gear Operating Envelope topic
- 188. Added a Near Misses topic after the Knowledge Check
- 189. Modified the Narration in the Crane Accident topic
- 190. Modified the screen text in the Causes topic
- 191. Changed the screen text and pictures and the narration in the GM Reporting Procedures/General topic
- 192. Added a Knowledge Check at the end of the module

193. Deleted the Crane And Rigging Gear Accidents Module Exam Questions and Answers section

General Crane Safety Final Exam

194. Modified question numbers throughout the exam

195. Removed the Math and Rigging Gear Selection and Use Exam Questions from the Final Exam

196. Added applicable questions from NAVFAC P-307, Appendix G to the Exam