Indiana CTE Next Level Programs of Study

# Advanced Civil Construction (2025)

## Basic Rigging 7118.D1

1. Describe basic rigging and safety practices related to rigging activities, the use and inspection of equipment and hardware used in rigging, jacks, and hoisting equipment, and how to apply common hitches. 7118.D1.1
2. Apply safety standards and best safety practices relevant to the operation of cranes, and describe safety considerations related to power lines, weather conditions, and specific crane functions. 7118.D1.2
3. Examine mobile crane equipment with an in-depth discussion of terminology and nomenclature, and explain the basic scientific principles associated with mobile crane operation. 7118.D1.3
4. Demonstrate the proper communication process between the signal person and the crane operator, including electronic communications and the standard hand signals. 7118.D1.4
5. Attain readiness to take the second half of the NCCER Heavy Highway Construction Level 1 certification exams. 7118.D1.5
6. Inspect various types of rigging components and report on the condition and suitability for a task. 7118.D1.6
7. Configure a sling to produce a single-wrap basket hitch, double-wrap basket hitch, single wrap choker hitch, and double-wrap choker hitch. 7118.D1.7
8. Select the correct tagline for a specified application. 7118.D1.8
9. Tie specific instructor-selected knots. 7118.D1.9
10. Select, inspect, and demonstrate the safe use of a block and tackle, chain hoist, ratchet-lever hoist, and jack. 7118.D1.10
11. Verify the boom length and operating radius of a telescopic and/or lattice-boom crane using 7118.D1.11
12. manufacturer's data or a measuring tape. 7118.D1.12
13. Calculate the amount of blocking needed for the outrigger of a specific crane. 7118.D1.13

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14 **Verify that a crane is level.** 7118.D1.14

15 **Demonstrate proper crane-communication techniques using a handheld radio or another acceptable verbal-signaling device.** 7118.D1.15

16 **Demonstrate each standard hand signal depicted in 29 CFR 1926.1400, Subpart CC, Appendix A.** 7118.D1.16

17 **Direct an operator to move and place a load using the appropriate hand signals and voice communication.** 7118.D1.17