



CICT – Advanced Rigging

1. COURSE OBJECTIVES

- a. On completion of the course, you will know:
 - i. Your Roles and Responsibilities
 - ii. How to determine load weight
 - iii. How to find the center of gravity of a load
 - iv. How to determine sling and block tension in various rigging setups
 - v. The rigging techniques used in various lifting operations
 - vi. How to read crane load charts.
 - vii. How to tie various common rope knots
 - viii. How to inspect rigging equipment
 - ix. International hand signals
 - x. How to conduct a pre-lift JSA (job safety analysis)
 - xi. How to prepare a lift plan for a sample lift

2. OCCUPATIONAL HEALTH AND SAFETY (OH&S) ACT

- a. **Obligations of Employers, Workers, etc.** 2(1)-(5)
- b. **Serious Injuries and accidents** 18(1)-(2)
- c. **Existence of Imminent Danger** 35(1)-(2)

3. OCCUPATIONAL HEALTH AND SAFETY (OH&S) REGULATION

- a. **General protection of workers** 13
- b. **Duties of workers** 14(1)-(2)
- c. **Safety training** 15(1)(2)(4)(5)

4. OCCUPATIONAL HEALTH AND SAFETY (OH&S) CODE

- a. **PART 6 - Cranes, Hoists and Lifting Devices**
 - i. **Load weight** 68
 - ii. **Lift Calculation** 68.1
 - iii. **Loads over work areas** 69
 - iv. **Hand signals** 71
- b. **PART 21 – Rigging**
 - i. **Breaking Strength** 292
 - ii. **Safety Factors** 292.1
 - iii. **Load Ratings** 293
 - iv. **Inspection** 294
 - v. **Rigging Protection** 296
 - vi. **Standards** 297
 - vii. **Slings** 298
 - viii. **Rope wound on drum** 299
 - ix. **Cable Clips** 300
 - x. **Matching Components** 302
 - xi. **Safety Latches** 303
 - xii. **Makeshift rigging and welding** 304



CICT – Advanced Rigging

Rejection Criteria

- xiii. **Synthetic fibre slings** 305
- xiv. **Wire Rope** 306 (1)(2)
- xv. **Electric Arc damage** 308
- xvi. **Damaged Hooks** 309

5. STANDARDS

- a. **American Society of Mechanical Engineers (ASME)**
 - i. ASME Standard B30.9-1996
 - ii. ASME Standard B30.20-2006