



Domain & Job Task Analysis

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Sr. No.	Domain Category	Percentage
Domain 01	Legislation	10%
Domain 02	Heat Treatment, Stress and Strain	10%
Domain 03	Verification of Lifting Equipment	10%
Domain 04	Lifting Accessories (Slings, Shackles, Eyebolts, and Hoist)	20%
Domain 05	Rigging Screws & Turnbuckles	10%
Domain 06	Plate Clamps	10%
Domain 07	Lifting Beams, Magnets, Chain Blocks, and Vacuum Lifters	15%
Domain 08	Crane Forks & C-Hooks	15%

1 Domain 01. Legislation – 10%

Knowledge of:

1. Understanding the Laws for safe lifting operations i.e., The Provision and Use of Work Equipment Regulations 1998, The Lifting Operations & Lifting Equipment Regulations 1998, Management of Health & Safety at Work Regulations 1999 and HSE Guidance Notes
2. Knowledge of standards relevant to the lifting equipment (British and European Standards)
3. Statutory duties under relevant legislation pertaining to lifting equipment

Skills:

1. To interpret laws and standards for safe lifting environment
2. Planned maintenance of portable lifting equipment in accordance with legislation (LOLER 1998, PUWER, HSE Guide Note)

2 Domain 02. Heat Treatment, Stress and Strain – 10%

Knowledge of:

1. Knowledge of heat treatment processes in metals
2. Understand strength and hardness of material with different heat treatment processes
3. Basic understanding of stress and strain curve and factors of safety
4. Types of stress and strain

Skills:

1. To analyze datasheet of strength, hardness and compare with the actual load tests
2. To analyze datasheet of stress, strain and compare with the actual load tests

3 Domain 03. Verification of Lifting Equipment – 10%

Knowledge of:

1. Necessary documents verification before lifting with equipment
2. Visual inspection, Non-Destructive Testing (MT, UT, PT, VT) of equipment for lifting
3. Suitability for use in their configurations of use (winches, tripods, jib crane, and their supports)
4. Know if given documentation is correct (e.g., application, maintenance, engineering)
5. Knowledge of which inspection records are required
6. Know how to verify whether proper repairs have been performed with acceptable documentation (e.g., repairs, modifications/alterations)

Skills:

1. Verification of accountability of documents provided relevant to the equipment
2. The requirement for the keeping of records
3. To understand load test and dimensional verification
4. Physical examination of equipment and lifting accessories

4 Domain 04. Lifting Accessories (Slings, Shackles, Eyebolts, and Hoist) – 20%

Knowledge of:

1. What are slings, shackles, and eyebolts?
2. Components of slings, shackles, eyebolts, and hoist
3. Types of slings, shackles, eyebolts, and hoist (e.g., chain sling, steel wire rope slings, webbing slings, textile slings)
4. Know how to document/communicate the deficiencies and recommendations on the final report

Skills:

1. To verify manufacturer documentation, defects and type of slings, shackles, or eyebolts under lifting
2. Checking the right type of slings, shackles, eyebolts, or hoist for lifting
3. To interpret the datasheet for safe loading operations relevant to grade
4. Physical examination before lifting for safety

5 Domain 05. Rigging Screws & Turnbuckles – 10%

Knowledge of:

1. What are rigging screws and turnbuckles?
2. Components of rigging screws and turnbuckles
3. Types of rigging screws and turnbuckles
4. Know how to document/communicate the deficiencies and recommendations on the final report

Skills:

1. To verify manufacturer documentation, defects and type of rigging screws and turnbuckles under lifting
2. To interpret SWL for lifting
3. Checking the right type of rigging screws and turnbuckles for lifting

6 Domain 06. Plate Clamps – 10%

Knowledge of:

1. What are plate clamps?
2. Components of plate clamps
3. Types of plate clamps
4. Know how to document/communicate the deficiencies and recommendations on the final report

Skills:

1. To verify manufacturer documentation, defects, and type of plate clamps under lifting
2. To interpret SWL for lifting
3. Checking the right type of plate clamps for lifting

7 Domain 07. Lifting Beams, Magnets, Chain Blocks, and Vacuum Lifters – 15%

Knowledge of:

1. What are lifting beams, magnets, and vacuum lifters?
2. Components of lifting beams, magnets, chain blocks, and vacuum lifters
3. Types of lifting beams, magnets, chain blocks, and vacuum lifters
4. Know how to document/communicate the deficiencies and recommendations on the final report

Skills:

1. To verify manufacturer documentation, defects, and type of lifting beams, magnets, chain blocks, and vacuum lifters under lifting
2. To interpret SWL for lifting
3. Checking the right type of lifting beams, magnets, chain blocks, and vacuum lifters for lifting

8 Domain 08. Crane Forks & C-Hooks – 15%

Knowledge of:

1. What are Crane Forks & C-Hooks?
2. Components of Crane Forks & C-Hooks
3. Types of Crane Forks & C-Hooks
4. Know how to document/communicate the deficiencies and recommendations on the final report

Skills:

1. To verify manufacturer documentation, defects, and type of Crane Forks & C-Hooks under lifting
2. To interpret SWL for lifting
3. Checking the right type of Crane Forks & C-Hooks for lifting