

## **ACADEMICS**

### **COURSE CURRICULUM:**

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The unique Industry oriented professional courses on:

1. Assistant Fitter - Levelling, Alignment & Balancing,
2. Assistant Rigger,
3. Assistant Electrician and
4. Mechanic - Hydraulic & Pneumatic Systems

### **COURSE DETAILS:**

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**Duration:** Three (3) Months

#### **Minimum Educational Qualification and Experience:**

ITI Passed after class 10

OR

Completed 2nd year of diploma (after 12th) with no experience

OR

12th pass with 2 years of any combination of NTC/NAC/CITS or equivalent with no experience

OR

Completed 3-year diploma after 10th with 1-year relevant experience

OR

Previous relevant Qualification of NSQF Level 4.5 with 1.5-year relevant experience

OR

Previous relevant Qualification of NSQF Level 4 with 3-year relevant experience.

### **SYLLABUS:**

#### **1. Assistant Fitter - Levelling, Alignment & Balancing:**

Module 1: Introduction to job role

Module 2: Follow basic health and safety practices at workplace

Module 3: Effective communication and interpersonal skills at workplace

Module 4: Prepare for levelling, alignment and balancing work

Module 5: Perform Levelling, Alignment and Balancing of Rotating Equipment

Module 6: Perform levelling, alignment and balancing of machine

Module 7: Inspect, Test and Perform Post-Maintenance Activities of Aligned and Balanced Machines

Module 8: Perform post-repairing activities

Module 9: Maintain Workplace Safety, Documentation and Handover after Repair and Maintenance

On-the -Job-Training.

## **2. Assistant Rigger:**

Module 1: Introduction to the job role

Module 2: Follow basic health and safety practices at workplace

Module 3: Effective communication and interpersonal skills at workplace

Module 4: Prepare for rigging job

Module 5: Set-up Rigging Arrangement and Secure Load

Module 6: Carry-out rigging activity

Module 7: Maintain Documentation and Handover after Rigging Work

On-the -Job-Training.

## **3. Assistant Electrician:**

Module 1: Introduction to the job role

Module 2: Follow basic health and safety practices at workplace

Module 3: Effective communication and interpersonal skills at workplace

Module 4: Prepare for machines/ electrical panels assembling activities

Module 5: Assemble, Wire and Test Electrical Machines and Control Panels

Module 6: Assemble electrical equipment and systems

Module 7: Test, Commission and Perform Basic Troubleshooting of Electrical Equipment and Systems

Module 8: Perform post-assembly activities

Module 9: Maintain Workplace Safety, Documentation and Handover of Electrical Equipment

On-the -Job-Training.

#### **4. Mechanic - Hydraulic & Pneumatic Systems:**

Module 1: Introduction to job role

Module 2: Follow basic health and safety practices at workplace

Module 3: Effective communication and interpersonal skills at workplace

Module 4: Prepare for fitting and assembly operations

Module 5: Perform fitting and assembly of hydraulic and pneumatic equipment

Module 6: Perform Testing, Adjustment and Commissioning of Assembled Equipment

Module 7: Perform post-assembly activities

Module 8: Maintain Workplace Housekeeping, Documentation and Handover

Module 9: Perform maintenance of hydraulic and pneumatic equipment

Module 10: Apply Continuous Improvement, Energy Efficiency and Sustainable Practices

On-the -Job-Training.