

# Characteristics of Wire Rope

## 1 Day Course

### OVERVIEW

To teach operators the criteria for wire rope inspection.

On completion of the course the operators will know:

- Their statutory duties under the Health & Safety at work Act 1974
- The construction of wire rope
- Methods of inspection of wire rope
- The rejection criteria for wire rope
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### COURSE CONTENT

- **Statutory Requirements:**
  - The Health & Safety at Work Act 1974
  - Section 2: General duties of employers
  - Section 7 & 8: General duties of employees
  - Powers of the Inspectorate
  - The Lifting Operations & Lifting Equipment Regulations 1998 (an overview)
- **Wire Rope:**
  - Design & Construction
  - Grades
  - Strand Classification
  - Constrictions
  - Rope Lay
  - Performing
  - Cores – size
  - Fatigue & Abrasion Resistance
  - Safety Factors
  - Safe Working Loads
  - Non-Rotating Ropes
  - Inspection
  - Testing
  - Certification of Ropes

### WHO WILL BENEFIT

For operators who come in contact with wire ropes for various jobs and require pre-use inspections

### DETAILS

Delegates who attend this course must be fully qualified engineers. This course is only designed for employees to carry out pre-use and in-service inspections.

### PPE REQUIRED

Hard Hat, Safety Harness, Gloves, High Vis Jacket/Vest and Boots

**Maximum No. of Delegates: 6**