CRANE CONTROL

D.C. CRANE CONTROL

KONECRANES
Training Institute

#852 3 DAYS

MAXIMUM CLASS SIZE: 10

GENERAL DESCRIPTION

This course assists our customers by gaining the knowledge to keep their DC Crane Control Systems performing at peak levels. This course teaches the different methods of controlling D.C. motors as used on cranes. Block diagrams of various manufacturers' controls are utilized to explain the operation in a crane application. D.C. motor basics and preventive maintenance are also covered in detail. Additionally, the course covers proper preventive maintenance procedures and alignment for D.C. motor controls.

COURSE OUTLINE

- General & Electrical Safety
- Electrical Theory - Power Distribution
    - Ohm's Law & Kirchoff's Laws
    - Series and Parallel Circuits
- DC Motors
    - Motor Construction & Operation
    - Series Wound & Shunt Wound Motors
    - Inspection, Testing & Troubleshooting
- Brakes
    - Inspection & Adjustment
    - Brake Wheels
- Electrical Schematics & Diagrams
- Limit Switches & Motor control "power" circuits
- Acceleration controls circuits
- System testing and troubleshooting

COURSE OBJECTIVES

- Understand D.C. characteristics, diode and SCR rectification
- Identify D.C. motor construction and perform maintenance
- Use system schematics to explain relay logic
- Properly text and adjust the electric control systems
- Troubleshoot the system to the faulty component