

INDUSTRIAL TECHNICIAN

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Company: Unique Management Consultants

Location: United Arab Emirates

Category: healthcare-practitioners-and-technical

Conduct Breaker Inspection, Test and Adjustment in accordance with procedural and operational experience to include:

- Check for abnormal assembling of mechanism parts
- Lubricate appropriate mechanism parts
- Inspect mechanism for dust and foreign materials
- Check mechanism C-rings, spring pins and divider pins for wrinkled or missing
- Check control circuit wiring for loose connections or loose parts
- Check closing tripping device moveable parts and check for discoloration of coil
- Check control circuit Aux switches links and contacts
- Check main circuit connections and for corrosion or discoloration
- Check vacuum integrity
- Check for normal operation of the Aux device switching indicator
- Perform insulation resistance checks on the main circuit and the control circuit
- Perform a Withstand Voltage test on the main circuit
- Perform operating characteristics test for trip/close, trip-free, and minimum operating voltage
- Check contact finger sectional traces for heat or discoloration, arcing damage, and condition of grease on the contactor surface
- Check contact spring for sectional traces of heat or discoloration, arcing damage, transformation, or mechanical crack of a coil
- Check VCB and cradle terminal for sectional traces of heat or discoloration, arcing damage,

and mutual eccentricity between terminals

- Check main circuit contact resistance after drawing out of the VCB.
- Manual operation - feel for binding (experience needed)
- Perform and record as-found electrical open and close test
- Perform pre-disassembly functional tests and visual inspection
- Remove front covers, phase barriers (if present) and arc chutes
- Replace lubricant where accessible
- Lubricate contact stabs and easily accessible pivot points and primary contacts if required
- Generally clean and inspect all accessible parts and surfaces
- Inspect for: pitting or corrosion on primary contacts; damaged, loose, or missing fasteners and setscrews; electrical tracking; cracked welds; rust or corrosion; cracked or burned arc chutes; hard lubricant; secondary control block damage or misalignment; worn or bent mechanical linkage, general cleanliness; wiring harness and protective relay damage.
- Replace known parts subject to wear-out or required by procedure
- Verify adjustments
- Perform insulation resistance tests
- Calibrate protective devices as required
- Perform overcurrent trip test
- Perform as-left electrical open and close test – PMT

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