



Electrical Power Testing

Level III Selected General References

The following publications can provide some of the job knowledge required by an electrical power testing technician career. No references will be allowed in the testing facility.

A Stitch in Time, Megger, 2010

American Electricians' Handbook, Twelfth Edition, Croft, Terrell, and Summer, Wilford I., 1992.

ANSI Z535.4 (2007) American National Standard for Product Safety Signs and Labels, NEMA, 2007

ASTM D923 (2007) Standard Practices for Sampling Electrical Insulating Liquids, ASTM, 2007

Battery Testing Guide, Megger, 2010

Carbon Brushes for Electrical Equipment, F.K. Lutz, 1966

C&D Technologies Inc. Material Safety Data Sheet, C&D Technologies Inc., 2010

Electrical Power Equipment Maintenance and Testing, Second Edition, Paul Gill, 2009

Electrical Safety in the Workplace, Ray A. Jones and Jane G. Jones, 2000

Electrical Transformer Handbook, Volume 2, Randolph Hurst, ed., The Electricity Forum, 2005

EPA.gov, 2010

First Aid/CPR/AED for the Workplace, American Red Cross, 2006

Getting Down to Earth, Megger, 2010

Handbook for Electricity Metering, Edison Electric Institute, 2010

Harwood's Control of Electric Motors, Fourth Edition, Ralph A. Millermaster, 1987

IEEE 100: The Authoritative Dictionary of IEEE Standards Terms, Seventh Edition, IEEE: The Institute of Electrical and Electronics Engineers, Inc., 2000

IEEE 1015: Recommended Practice for Applying Low-Voltage Circuit Breakers Used in Industrial and Commercial Power Systems (2006), Institute of Electrical and Electronics Engineers, Inc., 2006

IEEE 141: Recommended Practice for Electric Power Distribution for Industrial Plants (1993), Institute of Electrical and Electronics Engineers, Inc., 1993

IEEE 142: Recommended Practice for Grounding of Industrial and Commercial Power Systems (2007), Institute of Electrical and Electronics Engineers, Inc., 2007

IEEE 37.2 (2008), Institute of Electrical and Electronics Engineers, Inc., 2008

IEEE 450: Recommended Practice for Maintenance, Testing, and Replacement of Vented Lead-Acid Batteries for Stationary Applications (2002), Institute of Electrical and Electronics Engineers, Inc., 2002

IEEE C57.13: Standard Requirements for Instrument Transformers (2008), Institute of Electrical and Electronics Engineers, Inc., 2008

IEEE 81: Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials of a Ground System Part 1: Normal Measurements (1983), Institute of Electrical and Electronics Engineers, Inc., 1983

IEEE 1188: IEEE Recommended Practice for Maintenance, Testing, and Replacement of Valve-Regulated Lead-Acid (VRLA) Batteries for Stationary Applications, Institute of Electrical and Electronics Engineers, Inc.

IEEE 18: Shunt Power Capacitors (2002), Institute of Electrical and Electronics Engineers, Inc., 2002



- IEEE C37.99: Capacitor Banks, Guide for Protection of Shunt (2000), Institute of Electrical and Electronics Engineers, Inc., 2000
- IEEE 400.3: IEEE Guide for Partial Discharge Testing of Shielded Power Cable Systems in a Field Environment (2006), Institute of Electrical and Electronics Engineers, Inc., 2006
- IEEE 43: Recommended Practice for Testing Insulation Resistance of Rotating Machinery (2000), Institute of Electrical and Electronics Engineers, Inc., 2000
- IEEE C57.104: IEEE Guide for the Interpretation of Gases Generated in Oil-Immersed Transformers (2008), Institute of Electrical and Electronics Engineers, Inc., 2008
- IEEE C57.106: IEEE Guide for Acceptance and Maintenance of Insulating Oil in Equipment (2006), Institute of Electrical and Electronics Engineers, Inc., 2006
- IEEE 400.2: IEEE Guide for Field Testing of Shielded Power Cable Using Very Low Frequency (VLF) (2004), Institute of Electrical and Electronics Engineers, Inc., 2004
- IEEE 242: Recommended Practice for Protection and Coord. of Industrial and Commercial Power Systems – IEEE Buff BookT (2001), Institute of Electrical and Electronics Engineers, Inc., 2001
- IEEE C57.12.00: IEEE Standard for General Requirements for Liquid – Immersed Distribution, Power, and Regulating Transformers (2010), Institute of Electrical and Electronics Engineers, Inc., 2010
- IEEE C57.111: IEEE Guide for Acceptance of Silicone Insulating Fluid and Its Maintenance in Transformers (1989), Institute of Electrical and Electronics Engineers, Inc., 1989
- IEEE 62: IEEE Guide for Diagnostic Field Testing of Electric Power Apparatus-Part 1: Oil Filled Power Transformers, Regulators, and Reactors, Institute of Electrical and Electronics Engineers, Inc.
- IEEE C37.20.3: Standard for Metal-Enclosed Interrupter Switchgear (2001), Institute of Electrical and Electronics Engineers, Inc., 2001
- IEEE C37.20.4: Standard for Indoor AC Switches (1 kV-38 KV) for Use in Metal-Enclosed Switchgear (2001), Institute of Electrical and Electronics Engineers, Inc., 2001
- IEEE 1106: IEEE Recommended Practice for Installation, Maintenance, Testing, and Replacement of Vented Nickel-Cadmium Batteries for Stationary Applications, Institute of Electrical and Electronics Engineers, Inc.
- IEEE 400: Guide for Field Testing and Evaluation of the Insulation of Shielded Power Cable Systems (2001), Institute of Electrical and Electronics Engineers, Inc., 2001
- MK Batteries Installation Guide, MK, 2010
- NEMA ICS 19-2002 (R2007): Diagrams, Device Designations and Symbols, National Electrical Manufacturers Association (NEMA), 2007
- ANSI/NETA ATS: Standard for Acceptance Testing for Electrical Power Equipment and Systems (2009), InterNational Electrical Testing Association (NETA), 2009
- ANSI/NETA MTS: Standard Maintenance Testing Specifications for Electrical Power Distribution Equipment and Systems (2007), InterNational Electrical Testing Association (NETA), 2007
- NFPA 70: National Electrical Code, 2011, National Fire Protection Association (NFPA), 2010
- NFPA 70B: Recommended Practice for Electrical Equipment Maintenance, 2010, National Fire Protection Association (NFPA), 2009
- NFPA 70E: Standard for Electrical Safety in the Workplace, 2009, National Fire Protection Association (NFPA), 2008
- NFPA 70E: Handbook for Electrical Safety in the Workplace, Second Edition, William E. Buss, Mark W. Earley, Ray A. Jones, National Fire Protection Association (NFPA), 2009
- NICET Code of Ethics



OSHA 29 CFR Parts 1910 and 1926, Occupational Safety and Health Administration

OSHA Evacuation Plans and Procedures eTool, Occupational Safety and Health Administration

OSHA High-Voltage Electrical Regulations Simplified, James G. Stallcup and James W. Stallcup, 1997

Storage Battery Maintenance and Principles, Volume 3-6, United States Department of the Interior Bureau of Reclamation, 1998

Ugly's Electrical References, George V. and Sammie Hart, 2009

UL 1558: Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear, 2006

➤ This listing is not intended to be complete or representative.

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