

Approved NERC CE Provider LK-Intl_001



Gas Turbine Power Generation

Course Title	Approved NERC CE Hours
2503 - Operation of Gas Turbines	4
2504 - Control and Protection Systems	4
2505 - Aero-Derivative Gas Turbines	4
2508 - Combined Cycle Operation	4

Hydro-Electric Power Plant Operations

Course Title	Approved NERC CE Hours
2701 - The Hydro-Electric Role in the Power System	4
2702 - Hydro Power Stations	4
2703 - Water Management	4
2705 - Turbine Monitoring and Control	4
2706 - The Hydro Generator	4
2709 - Operation of Electrical Equipment	4

Heat Rate Optimization

Course Title	Approved NERC CE Hours
7801 - Fundamentals of Power Plant Efficiency I	4
7802 - Fundamentals of Power Plant Efficiency II	4
7803 - Factors Affecting Boiler Efficiency	2
7804 - Operator Controllable Losses - Boiler	2
7805 - Factors Affecting Turbine Cycle Efficiency	2
7806 - Operator Controllable Losses - Turbine Cycle	2
7807 - Balance of Plant Operation	2
7808 - Power Plant Control	3
7809 - Case Studies I	4
7810 - Case Studies II	4

System Protection Technology

Course Title	Approved NERC CE Hours
2101 - Elements of System Protection	4
2102 - Types of Protective Relays	4
2103 - Monitoring System Conditions	4
2104 - Fault Characteristics	4
2105 - Generator Protection	4
2106 - Transformer Protection	4
2107 - Bus Protection	4
2108 - Motor Protection	4
2109 - Line Protection	4
2110 - Pilot Protection	4
2111 - Protection for System Stability	4
2112 - Testing and Commissioning of Protective Schemes	4
2113 - Power Line Carriers	4
2114 - Fault Investigation and Analysis	4
2115 - Introduction to Static Relaying	4
2116 - Coordination of Protection Devices	4
2117 - Power Supply for Protection and Control Systems	4
2118 - Energy Center Operations	4
2119 - Telecommunications Protection I - HVSP Devices	4
2120 - Telecommunications Protection II - Installation and Configuration	4
2121 - Supervisory Control System (SCADA)	4
2122 - Inadvertent Trips - Cause and Prevention	4
2123 - Fault Calculations and Relay Settings	4
2124 - Testing Techniques	4
2125 - Programmable Logic Controllers	4

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Transmission System Operation

Course Title	Approved NERC CE Hours
7501 - Review of Fundamentals	4
7502 - Power Transmission	4
7503 - System Voltage Control	4
7504 - System Frequency and Tie-Line Control	4
7505 - Power Dispatching	4
7506 - System Security	4
7507 - Operating Under Abnormal Conditions	4
7508 - System Restoration	4
7509 - Monitoring and Control Communications	4
7510 - Transmission System Protection	4
7511 - The Effects of Deregulation on System Operation	4
7512 - Power Dispatch Under Deregulation	4
7513 - Transmission Control	4
7514 - Interconnection Operation - NERC/NAERO Policies	4
7516 - Generation Control and Performance	4
7517 - Aspects of System Operations	4
7518 - Power System Transactions and Coordination	4

Electrical Fundamentals

Course Title	Approved NERC CE Hours
7102- Properties of AC Circuits	2
7101 - Basic Electricity	2
7103 - Power and Power Factor	2
7104 - Three Phase Systems	2

Distribution System Training

Course Title	Approved NERC CE Hours
8001 - AC Voltage Generation	2
8002 - Power Factor	2
8003 - Impedance and Voltage Drop	2
8004 - Three Phase Power Systems	2
8005 - System Layout	2
8006 - Overhead Lines	2
8007 - Underground Distribution Systems	2
8008 - Substations	2
8009 - Distributed Generation	2
8010 - Substation Transformers	2
8011 - Distribution Transformers	2
8012 - Fault Interrupting Devices	2
8013 - Non-fault Interrupting Devices	2
8014 - Voltage Control Devices	2
8015 - Fundamentals of Protection	2
8016 - Overcurrent Protection	2
8017 - Differential Protection	2
8018 - Coordination of Protection Devices	2
8019 - Overvoltage Protection	2
8020 - Communication Techniques	2
8021 - SCAD Systems	2
8022 - Distribution Automation	2
8023 - Programmable Logic Controllers	2
8024 - Personnel Safety	2
8025 - Insulation Testing	2
8026 - Rotating Equipment Maintenance	2
8027 - Transformer Maintenance	2
8028 - Switchgear Maintenance	2
8029 - Line Maintenance	2
8030 - Maintenance Management	2
8031 - Load Characteristics and Utilization	2
8032 - Demand Management	2
8033 - Metering	2
8034 - Utility Rate Structure	2
8035 - The Effects of Deregulation and Competition	2
8036 - Power Quality	2
8037 - Function of the Operator	2
8038 - Abnormal Operating Conditions	2
8039 - Dealing with Service Interruptions	2

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Emergency Operations

Transmission System Operation

Course Title	Approved NERC CE Hours
7503 - System Voltage Control	4
7504 - System Frequency and Tie-Line Control	4
7505 - Power Dispatching	4
7506 - System Security	4
7507 - Operating Under Abnormal Conditions	4
7508 - System Restoration	4
7510 - Transmission System Protection	4
7512 - Power Dispatch Under Deregulation	4
7514 - Interconnection Operation - NERC/NAERO Policies	4

System Protection Technology

Course Title	Approved NERC CE Hours
2101 - Elements of System Protection	4
2102 - Types of Protective Relays	4
2103 - Monitoring System Conditions	4
2104 - Fault Characteristics	4
2105 - Generator Protection	4
2106 - Transformer Protection	4
2108 - Motor Protection	4
2109 - Line Protection	4
2110 - Pilot Protection	4
2111 - Protection for System Stability	4
2114 - Fault Investigation and Analysis	4
2116 - Coordination of Protection Devices	4