

COMMISSIONING OF ELECTRICAL EQUIPMENT:

Preparation, Planning, Pre-Commissioning Checks and Tests, Commissioning Schedule, Detailed Commissioning Procedures for Transformers, Switchgear, Induction and Synchronous Motors, and Generators, Commissioning Codes, Instrumentation, Trial Run of each Equipment, Safety and Precautions, Safety Rules Clearance Certificates, Procedure for the Control and Handling of Defects, Commissioning Reports

17– 19 MAY 2017, KUALA LUMPUR

Expert Course Faculty Leader



Philip Kiameh

Has more than 30 years of practical engineering experience with Ontario Power Generation and as a Training Manager, has conducted courses and seminars, to more than 4,000 working engineers and professionals who consistently ranked him as "Excellent" or "Very Good". Philip has also written 5 books for working engineers from which three have been published by McGraw-Hill, New York.

Topics Covered

Pre-Commissioning
Checks and Tests

Commissioning
Procedures,
Documents

Commissioning
Procedures for
Transformers



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Course Overview

This seminar provides a comprehensive understanding of all the commissioning and start-up activities of all electrical equipment including transformers, switchgear, induction and synchronous motors, generators and auxiliaries. All commissioning activities are covered in detail in this seminar. This includes all the commissioning procedures and documents, purpose of commissioning, responsibilities, system description, documentation, testing and commissioning schedules, test reports, safety, certification, and plant completion report. The seminar provides also a thorough understanding of all the commissioning requirements for transformers, switchgear, induction and synchronous motors and, generator and auxiliaries including its switchgear equipment, switchgear, and transformers. All the stages of the commissioning procedure are covered in-depth in this seminar. This includes preparation – planning various activities, pre-commissioning checks and tests, typical commissioning schedule, detailed tests and commissioning procedures for every type of transformers, switchgear, induction and synchronous motors, and generators and auxiliary systems, instrumentation, trial run of the equipment, safety and precautions, commissioning of electrical systems, Safety Rules Clearance Certificates, procedure for the control and handling of defects, Commissioning Reports.

This seminar is a MUST for anyone who is involved in the pre-commissioning or commissioning of any electrical equipment because it provides detailed pre-commissioning checks and tests and detailed tests and commissioning procedures for every electrical equipment. In addition, the seminar provides in-depth coverage of all preparation, planning activities, commissioning schedules, trial run of each electrical equipment, safety and precautions, Safety Rules Clearance Certificates, Procedures for handling defects, and Commissioning Reports.

Course Learning Outcomes

- **Pre-Commissioning Checks and Tests, Detailed Tests and Commissioning Procedures and Instructions for all Electrical Equipment:** Gain a thorough understanding of all pre-commissioning checks and tests, and all commissioning procedures and instructions for all electrical equipment
- **Commissioning Procedures, Documents, and Certification of Electrical Equipment:** Discover the benefits of the Commissioning Management System of electrical equipment including all commissioning procedures and documents, purpose of commissioning, responsibilities, system description, documentation, testing and commissioning schedules, test reports, safety, equipment certification, and commissioning completion report
- **Commissioning Procedures for Transformers:** Learn about the commissioning procedures for transformers including functional checks, pre-commissioning tests, commissioning tests, and records.
- **Commissioning Procedures for Switchgear Assemblies:** Gain a thorough understanding of all the commissioning procedures for switchgear assemblies including substation commissioning, electrical testing, code requirements, safety rules, grounding and shorting, high power testing, NETA acceptance testing procedures, test values analysis, and commissioning forms
- **Commissioning Procedures for Generator and Auxiliaries:** Discover all the commissioning procedures for generator and auxiliaries including generator, seal oil system, hydrogen gas system, stator water system, rolling and payment of generator
- **Commissioning Procedures and Instructions for Generator Electrical Equipment:** Learn about all the commissioning procedures and instructions for generator electrical equipment including switchyard equipment, switchgear, transformers, and motors
- **Code Requirements for Commissioning Electrical Equipment and Systems:** Learn about the code requirements for commissioning transformers, switchgear, inductions and synchronous motors, and generators and auxiliaries

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Training Methodology

The instructor relies on a highly interactive training method to enhance the learning process. This method ensures that all the delegates gain a complete understanding of all the topics covered. The training environment is highly stimulating, challenging, and effective because the participants will learn by case studies which will allow them to apply the material taught to their own organization.

Who Should Attend

- Engineers of all disciplines
- Managers
- Technicians
- Maintenance personnel
- Other technical individuals

Your Expert Faculty

Philip Kiameh, M.A.Sc., B.Eng., D.Eng., P.Eng. (Canada) has been a teacher at University of Toronto and Dalhousie University, Canada for more than 23 years. In addition, Prof Kiameh has taught courses and seminars to more than four thousand working engineers and professionals around the world, specifically Europe and North America. Prof Kiameh has been consistently ranked as "Excellent" or "Very Good" by the delegates who attended his seminars and lectures.

Prof. Kiameh performed research on power generation equipment with Atomic Energy of Canada Limited at their Chalk River and Whiteshell Nuclear Research Laboratories. He also has more than 30 years of practical engineering experience with Ontario Power Generation (formerly, Ontario Hydro - the largest electric utility in North America).

While working at Ontario Hydro, Prof. Kiameh acted as a Training Manager, Engineering Supervisor, System Responsible Engineer and Design Engineer. During the period of time that Prof Kiameh worked as a Field Engineer and Design Engineer, he was responsible for the operation, maintenance, diagnostics, and testing of gas turbines, steam turbines, generators, motors, transformers, inverters, valves, pumps, compressors, instrumentation and control systems. Further, his responsibilities included designing, engineering, diagnosing equipment problems and recommending solutions to repair deficiencies and improve system performance, supervising engineers, setting up preventive maintenance programs, writing Operating and Design Manuals, and commissioning new equipment.

Later, Prof Kiameh worked as the manager of a section dedicated to providing training for the staff at the power stations. The training provided by Prof Kiameh covered in detail the various equipment and systems used in power stations.

Professor Philip Kiameh was awarded his Bachelor of Engineering Degree "with distinction" from Dalhousie University, Halifax, Nova Scotia, Canada. He also received a Master of Applied Science in Engineering (M.A.Sc.) from the University of Ottawa, Canada. He is also a member of the Association of Professional Engineers in the province of Ontario, Canada.

Prof Kiameh wrote 5 books for working engineers from which three have been published by McGraw-Hill, New York. Below is a list of the books authored by Prof Kiameh:

- 1 Power Generation Handbook: Gas Turbines, Steam Power Plants, Co-generation, and Combined Cycles, second edition, (800 pages), McGraw-Hill, New York, October 2011.
- 2 Electrical Equipment Handbook (600 pages), McGraw-Hill, New York, March 2003.
- 3 Power Plant Equipment Operation and Maintenance Guide (800 pages), McGraw-Hill, New York, January 2012.
- 4 Industrial Instrumentation and Modern Control Systems (400 pages), Custom Publishing, University of Toronto, University of Toronto Custom Publishing (1999).
- 5 Industrial Equipment (600 pages), Custom Publishing, University of Toronto, University of Toronto, University of Toronto Custom Publishing (1999).

Special Feature

Each delegate will receive a copy of the following materials written by the instructor:

1. "ELECTRICAL EQUIPMENT HANDBOOK" published by McGraw-Hill in 2003 (600 pages)
2. ELECTRICAL EQUIPMENT COMMISSIONING MANUAL (includes practical information about all pre-commissioning checks and tests, typical commissioning schedule, detailed tests and commissioning procedures and instructions for all electrical equipment - 400 pages)

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3 Day Course Outline

Day 1 – Commissioning Management System, Commissioning of Power Transformers, Commissioning of Switchgear Assemblies, Substation Commissioning,

- Commissioning Procedure and Documents: Purpose of Commissioning, Responsibilities, System Description, Organization, Working Parties, Test Teams, Documentation, Safety, Plant Certification, Plant Completion Report,
- Commissioning of Power Transformers: Introduction, Recording of salient parameters, Pre-commissioning Checks, General Checks, General Arrangement, Terminations, Perfection of Connections, Earthing, Control Cable Connections, Radiator, Main Conservator and OLTC Conservator, Bushing, Breather, Cooler Units, Fans and Pumps, Winding Temperature Indicator (WTI) and Oil Temperature Indicator, Bucholtz Relays, Magnetic Oil Level Gauge, Arcing Horn Gap, Tap Changer, General Inspection
- Functional Checks
- Pre-Commissioning Tests: Insulation Resistance Test, Selection of Insulation Tester, Factors Influencing IR Value, Steps for Measuring the IR, Minimum Value of IR, Influence of Temperature on IR, Interpretation of Insulation Resistance Value, Points to Note
- Dielectric Absorption and Polarization Index Tests: Instruments/Materials Required, Procedure for Test, Interpretation of Polarization Index and Dielectric Absorption Curve
- Two Voltage Test (Step Voltage Test), Measurement of Tan Delta, Transformer Ratio Test, Short Circuit Current Measurement, Measurement of Magnetizing Current, Test for Magnetic Balance, Phasor Group Test, Test for Transformer Oil, Sampling of Oil – General Precautions, Sampling Procedure, Evaluation of Test Results, Relay Tests
- Commissioning, Records
- Commissioning Switchgear Assemblies
- Substation Commissioning: Introduction, Electrical Testing, Insulation Resistance Test, Example Calculation, Insulation Resistance Test Procedures
- AC Hipot Test, AC Hipot Test Procedure
- DC Hipot Test, DC Hipot Test Procedure
- Low Resistance Test, Low Resistance Test Procedure
- Safety Awareness and Practices
- Qualified Person, Qualifications of a Qualified Person, Recommended Practices

- A Brief Explanation of IEEE Standard 510-1983: Scope, Test Area and Safety Practice,
- Control and Measurement Circuits, Temporary Circuits
- Safety Rules, Safety Inspection
- Grounding and Shorting, Spacing,
- High Power Testing, General
- NETA Acceptance Testing Procedures: Visual and Mechanical Inspection, Electrical Tests
- Test Values Analysis: Visual and Mechanical, Electrical
- Test Set Operational Instruction Manual
- Switchgear Commissioning Test Forms
- Switchgear Inspection Check List Form
- Bus Section Resistance Test Form
- Bus Insulation Test Form
- References

Day 2 – Commissioning of Motors

- Pre-Energization Requirements: Verification of Electrical Connections/Interlocks
- Verification of Mechanical Integrity, Lubrication System Checks
- Insulation Resistance (IR) and Polarization Index (PI) Checks: Megohmmeter, Induction Motors
- Motor Tests: Preparation for Test, Test Procedure Insulation Resistance, Synchronous Motors, Test Procedure, Bearing Insulation Resistance, High-Potential Test
- Air Gap Check
- Verification of Protective Relay Setpoints: Phase Rotation Test
- Energization Tests: No Load Run Test, Phase Current Balance, Voltage Balance, Vibration Level
- No Load Run Test: RTD Readings for Bearings and Stator Windings, Test Duration, Synchronous Motors, Phase Current Balance, Voltage Balance, Vibration Level, RTD Readings for Bearings and Stator Windings, Field Current, Power Factor and KVAR Control, Test Duration
- Load Run Test: Induction Motors, Verify Motor Alignment, Phase Current Balance, Voltage Balance, Vibration Level, RTD Readings for Bearings and Stator Windings, Voltage Dip on Start, Acceleration Time, Field Current, Power Factor and KVAR Control, Test Duration

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- Evaluating The Results of Motor Commissioning For Acceptability or Unacceptability: Motor Commissioning Form
- Evaluating The Results of Induction Motor Commissioning: Example Evaluation
- Evaluating The Results of Synchronous Motor Commissioning: Example Evaluation
- Procedure and Acceptable Values for Evaluating The Results of Motor Commissioning Compiled from NEMA, and Established Engineering Practices: Procedure
- Acceptable Values for Pre-Energization Data: Inspection/Check of Electrical Connection/Interlocks, Inspection/Check of Mechanical Integrity, Inspection/Check of Lubrication System, Insulation Resistance Readings, Work Aid 1, Polarization Index, High Potential Test, Rotating Rectifier Diode Check, Air Gap Check, Inspection/Check of Protective Relays, Phase Rotation Test
- Acceptable Values for No Load Run Test Data: Phase Current, Phase voltage, percent Voltage Unbalance, Vibration Levels, Winding Temperature, Bearing Temperature, %Ns When Excited, Exciter Field Current, Motor Field Current, Power Factor, Reactive Power
- Acceptable Values for Load Run Test Data: Inspection/Check of Motor Alignment, Phase Current, Phase Voltage, Percent Voltage Unbalance, Vibration Level, Winding Temperature, Bearing Temperature, Voltage Dip on Start (%), Acceleration Time (sec), % Ns When Excited, Exciter Field Current, Motor Field Current, Power Factor, Reactive Power (KVAR)
- Glossary

Day 3 – Generator and Auxiliaries, Generator, Commissioning of Seal Oil System, Hydrogen Gas System, Stator Water System, Rolling and Dryout of Generator, Electrical Equipment, Switchgear, Switchgear, Transformer, Commissioning Reports

- Generator: Preliminary Checks of Resistance' Insulation Resistance, Ohmic Resistances, Generator Stator Winding, Generator Rotor Winding

- Seal Oil System: Equipment Inspection, Control Panels, AC Seal Oil Pump Motor Set, DC Seal Oil Pump Motor Set, Oil Injector, Induction Liquid Indicator, Seal Oil Coolers, Seal Oil Filters, Damper Tank, Differential Pressure Regulator, Pressure Oil Regulator, Exhaust Fan and Motor on The Drain Header, Exhaust Fan and Motor on Main Oil Tank, Commissioning of Seal Oil Starting Panel, Commissioning of Seal Oil Signaling Panel, Check with 200 V DC and AC Supplies, Trial Run of Seal Oil Pump Motors, DC Seal Oil Pump Motor, Trial Run of Exhaust Fans, Oil Flushing, Trial Run of AC Seal Oil Pump, Second Stage Flushing, Third Stage Flushing, Fourth Stage Flushing, Fifth Stage Flushing, Commissioning of The System
- Hydrogen Gas System: Equipment Inspection, Hydrogen Manifold, Carbon Dioxide Manifold, Hydrogen Gas Drier, Hydrogen Control Panel, hydrogen Cooling Water Pumps and Motors, Hydrogen Gas Coolers, Gas System Piping and Valves, Instrument, Gas Tightness Test of Generator with Gas and Seal Oil System, Requirements, Testing of CO2 Manifold Associated Elements and Piping, Testing of Gas Analyzer, Associated Elements and Piping, Final Gas Tightness test, Trial Run of Hydrogen Cooling Water Pump Motors, Trial Run of The Pumps, Charging Hydrogen Coolers, Conclusions
- Stator Water System: Equipment Inspection, Stator Water Cooling Pumps and Motors, Water Coolers, Water Filter, Magnetic Filter, Expansion Tank, Water Jet Ejector, Stator Water System Piping and Valves, Gas Trap, Instruments, Commissioning of Stator Water Starting Panel, Checks with 220 V DC and AC Supplies, Trial Run of Stator Cooling Water Pump Motor, Flushing of Stator Cooling Water System, First Stage Flushing (By pass all equipment except filters), Second Stage Flushing (Cooler B included), Third Stage Flushing (Cooling A included), Fourth Stage Flushing (Magnetic filters included), Trial Run of Stator Water Pumps (5th stage flushing), Commissioning of The System (Final run)
- Rolling and Dryout of Generator: Requirements for rolling, Requirements for Dryout, Rolling (200/210 MW Turbines) BTPS/SSTPP, Checks During Rolling, Dryout Operation, Hydrogen Filling in The Generator
- Generator Electrical Equipment: Switchyard Equipment, 400 kV Air Blast Circuit Breaker, Pantograph Isolator, Horizontal Centre-Break Isolator, Current Transformers, Capacitor Voltage Transformer, Lightning Arrestor, Earthing Switch
- Generator Switchgear: Description, Tests
- Generator Transformer: Description, Tests, HT Motor, Tests, Format and Guidance for Commissioning Reports, Safety Rules Clearance Certificate, Record of Initial Operation Certificate, Procedure for The Control & Handling of Defects, Stage I: Requirements for the Issue of Safety Clearance Certificate, Requirement for the Internal Takeover Certificate, Stage IV: Internal Final Contract Certificate Up to Guarantee Period

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Frequently Asked Questions (FAQs)

1. Does PowerEdge have other programmes than those listed?

We have more than 200 programmes that we are capable of running. All we need is for you to contact us and request for the preferred programme and we will be able to develop it.

2. Where is PowerEdge based?

PowerEDGE is headquartered in Singapore but we run our training programmes in different venues around Asia.

3. What does PowerEdge do?

We are a Power & Utilities Training Specialist.

4. Can this course be done in our city?

It absolutely can. Get in touch with us to request for a training programme to be carried out in your city.

5. Can you reduce the price of our preferred course?

While our price has been reduced before it is even launched, we are always happy to help you with further discounts.

6. Can you change the dates of the course?

If you have a special requested date, let us know and we will arrange another session for you.

7. Who are the companies that will be participating?

This varies from a diversity of Power Operators, Regulators, Financiers, to Vendors in the Power & Utilities industry.

8. Where is the venue for the course?

We usually engage a 4 to 5 star hotel meeting room to ensure the comfort of our participants.

9. How many delegates should we expect for each course?

This varies from 15 to 20 participants. Class sizes are kept small to allow trainers to focus better on each participant.

10. What are the different payment modes?

We accept Visa/MasterCard, cheques, bank transfers and cash on site.

11. Is accommodation included when I sign up for a course?

Accommodation is not included in the course fee but we are always happy to advise on available accommodations.

12. Can I get a cheaper accommodation through PowerEdge?

We will be pleased to help you negotiate a better rate with hotels.

13. Is lunch provided during the course?

We provide lunch and 2 tea breaks every day during our training programmes.

14. Are the training materials included once I have signed up for a course?

Yes, training and course materials are included in the course fee.

15. Will there be a certificate for the course?

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16. Who are PowerEdge trainers?

They are expert consultants and practitioners with many years of experience in the subject matter that they deliver on.

17. Are PowerEdge trainers competent?

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18. Can PowerEdge assist with Visa travel applications?

We can assist in advising you on the relevant procedure(s) and embassies/consulates that provide Visa for travel purposes.

19. Can we purchase training materials without attending a course?

Unfortunately this option is not available as training materials are specially developed for courses.

20. Can course content be tweaked to cater to our needs?

Of course! Just let us know your request and we will get the trainer to assist in carrying it out.

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	PER PARTICIPANT	2 PARTICIPANTS OR MORE	IN-HOUSE TRAINING
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By Cheque/ Bank Draft: Make Payable to PowerEdge Pte Ltd.

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Payment is due in full at the time of registration. Full payment is mandatory for event attendance. I agree to PowerEdge Pte Ltd. payment terms

* GST- Exclusive price is only applicable for overseas corporate customers subject to qualifying conditions.

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You may substitute delegates at any time. POWEREDGE PTE LTD does not provide refunds for cancellations. For cancellations received in writing more than seven (7) days prior to the training course you will receive a 100% credit to be used at another POWEREDGE PTE LTD training course for up to one year from the date of issuance. For cancellations received seven (7) days or less prior to an event (including day 7), no credits will be issued. In the event that POWEREDGE PTE LTD cancels an event, delegate payments at the date of cancellation will be credited to a future POWEREDGE PTE LTD event. This credit will be available for up to one year from the date of issuance. In the event that POWEREDGE PTE LTD postpones an event, delegate payments at the postponement date will be credited towards the rescheduled date. If the delegate is unable to attend the rescheduled event, the delegate will receive a 100% credit

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