Module 1: Operation & Maintenance of PGCB

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| SI. No. | Торіс | Session Code | Hour |
|---------|---|--------------|---------|
| 1. | Overall concept on Substation Equipments | 1.01 | 02 hrs |
| 2. | Operation procedure of substation equipment & Single Line diagram | 1.01 | 02 1115 |
| 3. | Function of Power Transformer | 1.02 | 02 hrs |
| 4. | Maintenance & Routine Inspection of Power Transformer | 1.02 | UZ IIIS |
| 5. | Function of Instrument Transformer | 1.03 | 00.1 |
| 6. | Maintenance & Routine Inspection of Instrument Transformer | | 02 hrs |
| 7. | Function of Circuit Breaker (CB), Lightning Arrester (LA) & | | |
| | Disconnected Switch (DS) | 1.04 | 02 hrs |
| 8. | Maintenance & Routine Inspection of Circuit Breaker (CB), Lightning | 1.04 | 02 1113 |
| | Arrester (LA) & Disconnected Switch (DS) | | |
| 9. | Safety and Grounding System | 1.05 | 02 hrs |
| 10. | Operation & Maintenance of HVDC | 1.06 | 02 hrs |
| 11. | Responsibility of Assistant Engineer in PGCB | 1.07 | 02 hrs |
| 12. | Inspection procedure of Transmission Line & Tower | 1.08 | 02 hrs |
| 13. | Maintenance of Transmission Line & Tower | 1.00 | |
| 14. | Operation and Maintenance of National Load Dispatch Centre | 1.09 | 02 hrs |
| 15. | Load Management & Reporting System | | |
| 16. | Frequency Control and Economic Load Dispatching | 1.10 | 02 hrs |
| 17. | Telecom & Remote Terminal Unit (RTU) basics | 1.11 | 02 bro |
| 18. | Operation & Maintenance of SCADA | | 02 hrs |
| 19. | Introduction of National Grid Code-2010 & KPI | 1.12 | 02 hrs |
| 20. | PGCB Website & E-mail uses & LAN, WAN, Internet | 1.13 | 02 hrs |
| 21. | E-Management & Office Automation | 1.13 | 02 1118 |
| 22. | Research & Technical Services | 1.14 | 02 hrs |
| 23. | Understanding of Power System Metering | 1 15 | 00 bro |
| 24. | Routine Testing and Calibration of Meter | 1.15 | 02 hrs |
| 25. | Communication Concepts of PGCB and OPGW & Commercial Leasing | 1.16 | 02 hrs |
| 26. | Introductory Course on Substation DC Distribution System, Battery | | |
| | and Battery Charger | 1.17 | 02 hrs |
| 27. | Basic Protection Concepts of Power Systems | | |
| 28. | Transmission Line Protection | 1.18 | 02 hrs |
| 29. | Transformer Protection and Relay Co-ordination | 1.19 | 02 hrs |
| 30. | Basics of Busbar and Breaker Fall Protection | | |
| 31. | Understanding Circuit Breaker Opening & Closing Schemes | 1.20 | 02 hrs |
| 32. | Understanding Interlocking Schemes | | |
| 33. | Feedback Workshop and Evaluation Test | 1.21 | 02 hrs |
| | | Total hour = | 42 hour |

Module 2: Planning & Development of PGCB

| SI. No. | Торіс | Session Code | Hour |
|---------|---|--------------|---------|
| 1. | Mission, Vision, Goals, Objectives & Reforms Programs of Power Sector | 2.01 | 02 hrs. |

| SI. No. | Торіс | Session Code | Hour | |
|----------------|--|---------------------|----------|--|
| 2. | Mission, Vision, Goals & Objectives of PGCB | 2.02 | 02 hrs. | |
| 3. | Concepts of Smart Grid Action Plan for PGCB | 2.03 | 02 hrs. | |
| 4. | Sustainable Energy Security Option for Bangladesh | 2.03 | 02 1115. | |
| 5. | Function of Instrument Transformer | 2.04 | 02 hrs. | |
| 6. | Overview: Planning and Development of Bangladesh Power System | 2.05 | 02 hrs. | |
| 7. | Load Flow Study | | | |
| 8. | Short Circuit Study | 2.06 | 02 hrs. | |
| 9. | Power System Concept: Steady State & Transient Phenomena and Stability Study | 2.07 | 02 hrs. | |
| 10. | Environmental Impact Assessment: A Planning Tool | 2.08 | 02 hrs. | |
| 11. | Procedure and Techniques of Transmission Line Design | 2.09 | 02 hrs. | |
| 12. | Procedure and Techniques of Sub Station Design | 2.10 | 02 hrs. | |
| 13. | Procedure and Techniques of Civil Design | 2.11 | 02 hrs. | |
| 14. | Quality Control: Civil Construction | 2.12 | 02 hrs. | |
| 15. | Repair and Maintenance of Civil Infrastructure | 2.12 | 02 1115. | |
| 16. | Right of Way (ROW) clearing of Transmission Line: Practice & Procedure | 2.13 | 02 hrs. | |
| 17. | Feedback Workshop and Evaluation Test | 2.14 | 02 hrs. | |
| Total hour = 2 | | | | |

Module 3: Project Management

Marks-50

| SI. No. | Торіс | Session Code | Hour |
|---------|--|--------------|---------|
| 1. | Introduction to Project Management: Project Planning, Concept & Techniques of Project Appraisal and Selection of Project | 3.01 | 02 hrs. |
| 2. | TAPP, DPP & RDPP | 3.02 | 02 hrs. |
| 3. | Project Preparation and Project Implementation | 3.03 | 02 hrs. |
| 4. | Project Monitoring and Evaluation | 3.04 | 02 hrs. |
| 5. | Evaluation Test | 3.05 | 02 hrs. |
| | | Total hour = | 10 hour |

Module 4: Public Procurement

| SI. No. | Торіс | Session Code | Hour |
|---------|--|--------------|---------|
| 1. | Introduction to PPR, Procurement Methods, Committee and Procurement Planning | 4.01 | 02 hrs. |
| 2. | STD used in Procurement of Goods, Works and Services including GCC and PCC | 4.02 | 02 hrs. |
| 3. | Advertisement, Tender Submission, Opening, Evaluation, Preparation of Evaluation Report, Tender Approval and Notification of Award | 4.03 | 02 hrs. |
| 4. | Contract Management, Disposal of Complain, Review & Appeal and Documentation of Procurement Records | 4.04 | 02 hrs. |
| 5. | E-Tendering | 4.05 | 02 hrs. |
| 6. | Procurement Management of PGCB | 4.06 | 02 hrs. |
| 7. | Store Management of PGCB | 4.07 | 02 hrs. |
| 8. | Feedback Workshop and Evaluation Test | 4.08-4.09 | 02 hrs. |

| SI. No. | Торіс | Session Code | Hour |
|---------|-------|--------------|---------|
| | | Total hour = | 16 hour |

Module 5: HRM & QMS of PGCB

Marks-100

| SI. No. | Торіс | Session Code | Hour |
|---------|--|--------------|---------|
| 1. | Theories & Functions of Organizational Management | 5.01 | 02 hrs. |
| 2. | HR for Non HR Manager/Professionals | 5.02 | 02 hrs. |
| 3. | Organogram of PGCB | 5.03 | 01 hrs. |
| 4. | Introductory Concepts of Service Rule and Recruitment, Selection & Confirmation Policy & Procedure | 5.04 | 02 hrs. |
| 5. | Performance Management System & Key Performance Indicators (KPI) of PGCB | 5.05 | 02 hrs. |
| 6. | Promotion Policy | | |
| 7. | Pay scale, Time scale & Selection grade | 5.06 | 02 hrs. |
| 8. | Seniority, Fixation & Annual Increment | | |
| 9. | Fringe Benefits (Electricity bill, Gratuity, Group Insurance & Tiffin bill etc) | 5.07 | 02 hrs. |
| 10. | Shift duty allowance, Additional charge allowance & Honorarium | | |
| 11. | CPF Rule | E 00 | 02 hrs. |
| 12. | Medical Rule | 5.08 | |
| 13. | Procedure of Termination, Resign & Retirement | 5.09 | 02 hrs. |
| 14. | Settlement of Final Payment | | |
| 15. | Misconduct, Disciplinary Procedure, Punishment & Appeal Procedure | 5.10 | 02 hrs. |
| 16. | Participation & Welfare fund Management | F 44 | 00 1 |
| 17. | Residential Accommodation Policy & House Rent | 5.11 | 02 hrs. |
| 18. | PGCB Security System for S/S & T/L including CCTV Monitoring | F 40 | 00 has |
| 19. | Key Point Installation (KPI) of PGCB and Security Manual | 5.12 | 02 hrs. |
| 20. | QMS &ISO 9001:2008 & PGCB | 5.13 | 02 hrs. |
| 21. | Employee Counseling | 5.14 | 02 hrs. |
| 22. | Fire & Safety | | |
| 23. | First Aid System | 5.15 | 02 hrs. |
| 24. | Criminal Case Handling, FIR & GD | | |
| 25. | Total Quality Management (TQM) | 5.16 | 02 hrs. |
| 26. | Good Governance and PGCB | 5.17 | 02 hrs. |
| 27. | Feedback Workshop and Evaluation Test | 5.18 | 02 hrs. |
| | | Total hour = | 35 hour |

Module 6: Financial Management, Auditing System of PGCB Marks-50

| SI. No. | Торіс | Session Code | Hour |
|---------|--|--------------|---------|
| 1. | General Concept and Procedure of Financial Management | 6.01 | 02 hrs. |
| 2. | Functions of Accounts & Finance Department of PGCB | 6.02 | 02 hrs. |
| 3. | Budget Preparation & Administration of Budgetary Control | | |
| 4. | Tax/VAT Rules | 6.03 | 02 hrs. |
| 5. | Delegation of Financial Administration | 6.04 | 02 hrs. |

| SI. No. | Topic | Session Code | Hour | |
|--------------|---|--------------|---------|--|
| 6. | TA/DA & OT Rules | 6.05 | 02 hrs. | |
| 7. | Internal Audit & Procedure | 6.06 | 02 hrs. | |
| 8. | Process of Audit Settlement | 6.07 | 02 hrs. | |
| 9. | Company Affairs of PGCB and as a Public Limited Company | 6.08 | 02 hrs. | |
| 10. | Feedback Workshop and Evaluation Test | 6.09 | 02 hrs. | |
| Total hour = | | | | |

Module 7: Office Management & Communication

| SI. No. | Торіс | Session Code | Hour |
|---------|--|--------------|---------|
| 1. | Rules of Business & Allocation of Business | 7.01 | 02 hrs. |
| 2. | File Management (Opening Files, Docketing and Indexing) | 7.02 | 02 hrs. |
| 3. | Noting, Drafting and Summery Writing | 7.03 | 02 hrs. |
| 4. | Communication & Techniques of Communication | 7.04 | 02 hrs. |
| 5. | Letter Writing | 7.05 | 02 hrs. |
| 6. | Conducting Meeting, Writing Working Paper and Art of Writing Minutes | 7.06 | 02 hrs. |
| 7. | Office Inspection and Report Writing | 7.07 | 02 hrs. |
| 8. | Listening Skills | 7.08 | 02 hrs. |
| 9. | Writing Skills | 7.09 | 02 hrs. |
| 10. | Art of Speaking | 7.10 | 02 hrs. |
| 11. | Art of Speaking | 7.11 | 02 hrs. |
| 12. | Evaluation Test | 7.12 | 02 hrs. |
| | | Total hour = | 24 hour |

Module 8: Organizational Behavior

| Marks-1 | 00 |
|---------|----|
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| SI. No. | Topic | Session Code | Hour |
|---------|---|--------------|---------|
| 1. | Dynamics of Organization Behavior | 8.01 | 02 hrs. |
| 2. | Manners & Etiquettes | 8.02 | 02 hrs. |
| 3. | Corporate Culture | 8.03 | 02 hrs. |
| 4. | Motivation and Human relation in Organization | 8.04 | 02 hrs. |
| 5. | Leadership and Change Management | 8.05 | 02 hrs. |
| 6. | Problem Solving and Decision Making Process | 8.06 | 02 hrs. |
| 7. | Group Dynamic and Team Building | 8.07 | 02 hrs. |
| 8. | Conflict Management and Negotiation Skills | 8.08 | 02 hrs. |
| 9. | Procedure of Grievance Handling | 8.09 | 02 hrs. |
| 10. | Professional Integrity: Morality, Ethics and Values | 8.10 | 02 hrs. |
| 11. | Time Management and Work Planning | 8.11 | 02 hrs. |
| 12. | Evaluation Test | 8.12 | 02 hrs. |
| | | Total hour = | 24 hour |

Module 9: Bangladesh Studies

Marks-50

| SI. No. | Topic | Session Code | Hour |
|---------|--|--------------|---------|
| 1. | Historical Background of Bangladesh & Liberation war | 9.01 | 02 hrs. |
| 2. | Introduction to Bangladesh Constitution and Fundamental Principles of State Policy | 9.02 | 02 hrs. |
| 3. | The National Flag, Anthem, Emblem Rules and Warrant of Precedence | 9.03 | 02 hrs. |
| 4. | Human Rights and Fundamental Rights | 9.04 | 02 hrs. |
| 5. | Evaluation Test | 9.01 - 9.04 | 02 hrs. |
| | | Total hour = | 10 hour |

Module 10: Policy Strategy (Extension Lecture)

| SI. No. | Topic | Session Code | Hour |
|---------|---|----------------------|---------|
| 1. | National Integrity Strategy of Bangladesh | 10.01 | 02 hrs. |
| 2. | ICT policy; Vision 2021 & E-Governance | 10.02 | 02 hrs. |
| 3. | Right to Information Act. 2009. | 10.03 | 02 hrs. |
| 4. | Anti-corruption Interventions in Bangladesh | 10.04 | 02 hrs. |
| 5. | The role of Power in Economic Development: Bangladesh Perspective | 10.05 | 02 hrs. |
| 6. | Citizen's Charter | 10.06 | 02 hrs. |
| 7. | Income Tax & Value Added Tax | 10.07 | 02 hrs. |
| 8. | The Electricity Act | 10.08 | 02 hrs. |
| 9. | Evaluation Test | 10.09 | 02 hrs. |
| | | Total hour = 18 hour | |

Module 11: Study Tour/Practical Field Visit

| SI. No. | Topic | Session Code | Hour |
|---------|----------------|--------------|---------|
| 1. | Study Tour - 1 | 11.01 | 01 day |
| 2. | Study Tour - 2 | 11.02 | 02 days |
| 3. | Study Tour - 3 | 11.03 | 02 days |
| | | Total = | 05 days |