

APPROVED ANNUAL WCO CERTIFICATION PROGRAM FOR 2022-2023



| | TRAINING COURSE TITLE | TRAINING TYPE | TARGET AUDIENCE | TENTATIVE TRAINING SCHEDULE | ESTIMATED TRAINING HOURS | APPROVED CREDIT POINTS |
|----|---|------------------|--|-----------------------------|--------------------------|------------------------|
| 1 | Renewable Energy Market Overview | Regular Training | All Members | 27-Jul-2022 | 2 hours | 2 |
| 2 | Renewable Energy Market Process and Transactions | Regular Training | Distribution Utilities, Retail Electricity Suppliers | 17-Aug-2022 | 4 hours | 4 |
| 3 | Dispute Resolution Administration (DRA) | Regular Training | WESM Dispute Resolution Focal Persons | 22-Aug-2022 | 2 hours | 2 |
| 4 | Renewable Energy Market: Process and Transactions | Regular Training | Generators | 26-Aug-2022 | 4 hours | 4 |
| 5 | Dispute Resolution Administration (DRA) | Regular Training | REM Dispute Resolution Focal Persons | 26-Sep-2022 | 2 hours | 2 |
| 6 | Renewable Energy Market: Governance and Updates | Regular Training | Distribution Utilities, Retail Electricity Suppliers | 07-Oct-2022 | 4 hours | 4 |
| 7 | WESM Compliance Officer (WCO) Summit 2022 (Day 1) | Events | All Members | 13-Oct-2022 | 3 hours | 3 |
| 8 | WESM Compliance Officer (WCO) Summit 2022 (Day 2) | Events | All Members | 14-Oct-2022 | 5 hours | 5 |
| 9 | Renewable Energy Market: Governance and Updates | Regular Training | Generators | 19-Oct-2022 | 4 hours | 4 |
| 10 | WCO Certification Fundamentals and Updates | Regular Training | All Members | 18-Jan-2023 | 2 hours | 2 |

Please note:

- All trainings offered are free of charge.
- Training schedules may change without prior notice.
- Training courses may be updated during the year, as proposed to and approved by the Compliance Committee.
- Course offerings are based on the revised PEMC-TSP Annual WCO Certification Program for 2022 – 2023 approved by the Compliance Committee on 06 June 2023.
- Approved Annual WCO Certification Program CY 2022-2023 Version 5 reflects updated assigned credit points for the Market Participants' Townhall and EMX 2023.

APPROVED ANNUAL WCO CERTIFICATION PROGRAM FOR 2022-2023



| | TRAINING COURSE TITLE | TRAINING TYPE | TARGET AUDIENCE | TENTATIVE TRAINING SCHEDULE | ESTIMATED TRAINING HOURS | APPROVED CREDIT POINTS |
|--------------|---|------------------|------------------|-----------------------------|--------------------------|------------------------|
| 11 | ECO Processes: Compliance with the Forecast Accuracy Standards (FAS) under the Enhanced WESM Design and Operations (EWDO) | Regular Training | Generators | 01-Feb-2023 | 3 hours | 3 |
| 12 | WCO Refresher Courses | Regular Training | All Members | 15-Feb-2023 | 3 hours | 3 |
| 13 | Renewable Energy Market (REM) Overview | Regular Training | All Members | 01-Mar-2023 | 2 hours | 2 |
| 14 | Enforcement and Compliance (ECO) Processes: Relevant Market Manual | Regular Training | All Members | 16-Mar-2023 | 4 hours | 4 |
| 15 | Orientation on Market Compliances | Regular Training | New WESM Members | 13-Apr-2023 | 2 hours | 2 |
| 16 | WESM Governance Fundamentals | Regular Training | New WESM Members | 20-Apr-2023 | 2 hours | 2 |
| 17 | Market Participants' Townhall | Event | All Members | 31-May-2023 | 3 hours | 5 |
| 18 | Electricity Market Exchanges (EMX) 2023 | Event | All Members | 21-Jun-2023 | 3 hours | 5 |
| 19 | ECO Processes: Compliance Rating | Regular Training | Generators | 29-Jun-2023 | 2 hours | 2 |
| TOTAL | | | | | 50 hours | 60 units |

Please note:

- All trainings offered are free of charge.
- Training schedules may change without prior notice.
- Training courses may be updated during the year, as proposed to and approved by the Compliance Committee.
- Course offerings are based on the revised PEMC-TSP Annual WCO Certification Program for 2022 – 2023 approved by the Compliance Committee on 06 June 2023.
- Approved Annual WCO Certification Program CY 2022-2023 Version 5 reflects updated assigned credit points for the Market Participants' Townhall and EMX 2023.

APPROVED ANNUAL WCO CERTIFICATION PROGRAM FOR 2022-2023



RENEWABLE ENERGY MARKET: OVERVIEW

| TRAINING TYPE | REGULAR TRAINING |
|---|--|
| OBJECTIVE / DESCRIPTION OF TRAINING COURSES | <ul style="list-style-type: none">• The course intends to discuss the background of the Renewable Energy Market (REM) in the Philippines, familiarizing participants with the basic concepts and processes related to the REM. |
| PROGRAM OUTLINE | <ul style="list-style-type: none">• Legal Basis• General Concepts• Overview of Governance• Membership in the REM• Overview of REM Processes |

RENEWABLE ENERGY MARKET: PROCESS AND TRANSACTIONS

| TRAINING TYPE | REGULAR TRAINING |
|---|---|
| OBJECTIVE / DESCRIPTION OF TRAINING COURSES | <ul style="list-style-type: none">• The course intends to discuss comprehensively the processes involved in the issuance of Renewable Energy Certificates (REC), transactions, validation, and adjustment thereto. |
| PROGRAM OUTLINE | <ul style="list-style-type: none">• Process of Issuance of RECs• Validation of the Issued RECs• REC Process and Transactions• Philippine Renewable Energy Market System (PREMS) Navigation |

Please note:

- *All trainings offered are free of charge.*
- *Training schedules may change without prior notice.*
- *Training courses may be updated during the year, as proposed to and approved by the Compliance Committee.*
- *Course offerings are based on the revised PEMC-TSP Annual WCO Certification Program for 2022 – 2023 approved by the Compliance Committee on 06 June 2023.*
- *Approved Annual WCO Certification Program CY 2022-2023 Version 5 reflects updated assigned credit points for the Market Participants' Townhall and EMX 2023.*

APPROVED ANNUAL WCO CERTIFICATION PROGRAM FOR 2022-2023



DISPUTE RESOLUTION ADMINISTRATION

| | |
|---|--|
| TRAINING TYPE | REGULAR TRAINING |
| OBJECTIVE / DESCRIPTION OF TRAINING COURSES | <ul style="list-style-type: none"> The course intends to discuss comprehensively the dispute resolution process in the WESM including the negotiation and arbitration. |
| PROGRAM OUTLINE | <ul style="list-style-type: none"> WESM Compliance and Governance Updates WESM Penalty Manual Relevant Rules Change Dispute Resolution Process and Updates |
| EXPLANATION FOR GREATER CREDIT UNIT WEIGHT/POINTS | N/A |

WESM COMPLIANCE OFFICER (WCO) SUMMIT 2022

| | |
|---|--|
| TRAINING TYPE | EVENTS |
| OBJECTIVE / DESCRIPTION OF TRAINING COURSES | <ul style="list-style-type: none"> A 2-day event which provides the WCOs the status and updates on enforcement and compliance-related matters, while emphasizing WESM participant obligations, among others. |
| PROGRAM OUTLINE | <ul style="list-style-type: none"> Updates on WCO enforcement and compliance-related matters WCO WESM obligations WCO Annual Report 2021 Market Governance Highlights 2021 Open Forum Feature Presentation Awarding |

Please note:

- All trainings offered are free of charge.
- Training schedules may change without prior notice.
- Training courses may be updated during the year, as proposed to and approved by the Compliance Committee.
- Course offerings are based on the revised PEMC-TSP Annual WCO Certification Program for 2022 – 2023 approved by the Compliance Committee on 06 June 2023.
- Approved Annual WCO Certification Program CY 2022-2023 Version 5 reflects updated assigned credit points for the Market Participants' Townhall and EMX 2023.

APPROVED ANNUAL WCO CERTIFICATION PROGRAM FOR 2022-2023



RENEWABLE ENERGY MARKET (REM): GOVERNANCE AND UPDATES

| TRAINING TYPE | REGULAR TRAINING |
|---|--|
| OBJECTIVE / DESCRIPTION OF TRAINING COURSES | <ul style="list-style-type: none"> The course is a comprehensive discussion on the rules change process in the REM. It will also include investigation procedures and corresponding penalties for non-compliance. |
| PROGRAM OUTLINE | <ul style="list-style-type: none"> REM Rules Change Process REM Investigation Procedures and Penalty REM Dispute Resolution Process REM Implementation Updates |

WCO CERTIFICATION FUNDAMENTALS AND UPDATES

| TRAINING TYPE | REGULAR TRAINING |
|---|--|
| OBJECTIVE / DESCRIPTION OF TRAINING COURSES | <ul style="list-style-type: none"> The course intends to discuss the background, implementing guidelines, and updates on the WCO Certification Program. |
| PROGRAM OUTLINE | <ul style="list-style-type: none"> Legal Basis WCO Certification and Registration Manual WCO Accreditation Requirements WCO Implementing Guidelines WCO Certification Program Updates |

Please note:

- All trainings offered are free of charge.
- Training schedules may change without prior notice.
- Training courses may be updated during the year, as proposed to and approved by the Compliance Committee.
- Course offerings are based on the revised PEMC-TSP Annual WCO Certification Program for 2022 – 2023 approved by the Compliance Committee on 06 June 2023.
- Approved Annual WCO Certification Program CY 2022-2023 Version 5 reflects updated assigned credit points for the Market Participants' Townhall and EMX 2023.

APPROVED ANNUAL WCO CERTIFICATION PROGRAM FOR 2022-2023



WCO REFRESHER COURSES

| TRAINING TYPE | REGULAR TRAINING |
|---|---|
| OBJECTIVE / DESCRIPTION OF TRAINING COURSES | <ul style="list-style-type: none"> • These courses intend to provide reviews, updates, and new developments on WCO-related courses to improve the knowledge and skills of the participants. |
| PROGRAM OUTLINE | <ul style="list-style-type: none"> • Overview of Enforcement and Compliance Proceedings • Compliance under the WESM Central Scheduling (WCS); Compliance Post-Evaluation and Monitoring System (CPEMS) Forms; and Event Categorization • CPEMS Feature Demonstration |

ENFORCEMENT AND COMPLIANCE (ECO) PROCESSES: RELEVANT MARKET MANUAL

| TRAINING TYPE | REGULAR TRAINING |
|---|--|
| OBJECTIVE / DESCRIPTION OF TRAINING COURSES | <ul style="list-style-type: none"> • The course intends to discuss the proceedings and enforcement actions to be undertaken for non-compliances or breaches of a Wholesale Electricity Spot Market (WESM) Member with the WESM Rules or Market Manuals. |
| PROGRAM OUTLINE | <ul style="list-style-type: none"> • Enforcement and Compliance Manual • WESM Penalty Manual |

Please note:

- *All trainings offered are free of charge.*
- *Training schedules may change without prior notice.*
- *Training courses may be updated during the year, as proposed to and approved by the Compliance Committee.*
- *Course offerings are based on the revised PEMC-TSP Annual WCO Certification Program for 2022 – 2023 approved by the Compliance Committee on 06 June 2023.*
- *Approved Annual WCO Certification Program CY 2022-2023 Version 5 reflects updated assigned credit points for the Market Participants' Townhall and EMX 2023.*

APPROVED ANNUAL WCO CERTIFICATION PROGRAM FOR 2022-2023



ORIENTATION ON MARKET COMPLIANCES

| | |
|---|--|
| TRAINING TYPE | REGULAR TRAINING |
| OBJECTIVE / DESCRIPTION OF TRAINING COURSES | <ul style="list-style-type: none">• The course intends to provide general concepts on the enforcement and compliance processes, guidelines and penalty mechanism. |
| PROGRAM OUTLINE | <ul style="list-style-type: none">• Enforcement and Compliance Processes<ul style="list-style-type: none">○ Compliance and Investigation○ Compliance Monitoring and Assessment Process○ Investigation and Post- Investigation Processes○ Offered Capacity Compliance○ Dispatch Conformance Standards• Penalty Mechanism |
| EXPLANATION FOR GREATER CREDIT UNIT WEIGHT/POINTS | N/A |

WESM GOVERNANCE FUNDAMENTALS

| | |
|---|---|
| TRAINING TYPE | REGULAR TRAINING |
| OBJECTIVE / DESCRIPTION OF TRAINING COURSES | <ul style="list-style-type: none">• The course intends to introduce to WESM stakeholders the electric power industry in the Philippines. This will also include awareness on the Philippine Electricity Market Corporation (PEMC)'s structure and services as the governance arm of the WESM. |

Please note:

- *All trainings offered are free of charge.*
- *Training schedules may change without prior notice.*
- *Training courses may be updated during the year, as proposed to and approved by the Compliance Committee.*
- *Course offerings are based on the revised PEMC-TSP Annual WCO Certification Program for 2022 – 2023 approved by the Compliance Committee on 06 June 2023.*
- *Approved Annual WCO Certification Program CY 2022-2023 Version 5 reflects updated assigned credit points for the Market Participants' Townhall and EMX 2023.*

APPROVED ANNUAL WCO CERTIFICATION PROGRAM FOR 2022-2023



| | |
|-----------------|--|
| PROGRAM OUTLINE | <ul style="list-style-type: none"> • Overview of the Electric Power Industry Reform Act (EPIRA 101) • PEMC 101 (Structure, Departments, and Services) • PEMC Website Navigation |
|-----------------|--|

ECO PROCESSES: COMPLIANCE WITH THE FORECAST ACCURACY STANDARDS (FAS) UNDER THE ENHANCED WESM DESIGN AND OPERATIONS (EWDO)

| | |
|---|--|
| TRAINING TYPE | REGULAR TRAINING |
| OBJECTIVE / DESCRIPTION OF TRAINING COURSES | <ul style="list-style-type: none"> • The course intends to discuss the forecast accuracy standards to be complied with by the must dispatch generating units with respect to their projected outputs and sanctions to non-compliance thereof. |
| PROGRAM OUTLINE | <ul style="list-style-type: none"> • Legal Basis • Transition Period • General Concepts • Next Steps • Sanctions and Penalties • Must-dispatch generating units on the FAS under the EWDO |

MARKET PARTICIPANTS' TOWNHALL

| | |
|---|--|
| TRAINING TYPE | EVENT |
| OBJECTIVE / DESCRIPTION OF TRAINING COURSES | <ul style="list-style-type: none"> • The event aims to provide market governance and operations update on recently launched WESM Mindanao and foster a culture of compliance among Market Participants in Mindanao. |

Please note:

- All trainings offered are free of charge.
- Training schedules may change without prior notice.
- Training courses may be updated during the year, as proposed to and approved by the Compliance Committee.
- Course offerings are based on the revised PEMC-TSP Annual WCO Certification Program for 2022 – 2023 approved by the Compliance Committee on 06 June 2023.
- Approved Annual WCO Certification Program CY 2022-2023 Version 5 reflects updated assigned credit points for the Market Participants' Townhall and EMX 2023.

APPROVED ANNUAL WCO CERTIFICATION PROGRAM FOR 2022-2023



| | |
|---|--|
| PROGRAM OUTLINE | <ul style="list-style-type: none"> • Market Assessment and Governance • REM Governance Updates • WESM Mindanao Operations • Market Compliance Updates |
| EXPLANATION FOR GREATER CREDIT UNIT WEIGHT/POINTS | <p>This event will be held in Mindanao following the promulgation of Department Circular No. 2022-12-0039 declaring the commencement of the commercial operations of the WESM in Mindanao on 26 January 2023. The event is assigned with greater credit unit weight as this event will provide market participants an opportunity to gain knowledge on the recent market development and rules updates that are crucial in their compliance in the market. Furthermore, the presenters and panelists for this event are experts in the field of market analysis, compliance, and governance.</p> |

ELECTRICITY MARKET EXCHANGES (EMX) 2023

| TRAINING TYPE | EVENT |
|---|---|
| OBJECTIVE / DESCRIPTION OF TRAINING COURSES | <ul style="list-style-type: none"> • The EMX aims to strengthen the market stakeholders' appreciation and understanding of significant matters on market development, operations or governance through healthy discussions and exchanges. • This year's EMX will discuss the current issues and challenges experienced by the generators in an evolving electricity market, with the end view of determining the best possible solution in moving forward and securing efficiency of the power system. • Discussions will tackle experiences that will help steer the participants of a robust electricity market into an introspection of best practices, paving the way for open and honest dialogue that will bring the industry forward into unprecedented growth and development. |

Please note:

- All trainings offered are free of charge.
- Training schedules may change without prior notice.
- Training courses may be updated during the year, as proposed to and approved by the Compliance Committee.
- Course offerings are based on the revised PEMC-TSP Annual WCO Certification Program for 2022 – 2023 approved by the Compliance Committee on 06 June 2023.
- Approved Annual WCO Certification Program CY 2022-2023 Version 5 reflects updated assigned credit points for the Market Participants' Townhall and EMX 2023.

APPROVED ANNUAL WCO CERTIFICATION PROGRAM FOR 2022-2023



| | |
|---|--|
| PROGRAM OUTLINE | <ul style="list-style-type: none"> • AVP Feature Presentation • EISG Presentation (To be confirmed (TBC)) • Renewable Energy Generator: Experiences, Innovations and Challenges (TBC) • Conventional Energy Generator: Experiences, Innovations and Challenges (TBC) • Open Forum |
| EXPLANATION FOR GREATER CREDIT UNIT WEIGHT/POINTS | <p>The event is assigned with greater credit unit weight as this event will provide added learning to market participants, highlighting the supply sector as they share their experiences, innovations, and challenges in the evolving energy industry. Furthermore, the presenters and panelists for this event are experts in the field of generation and market governance, respectively.</p> |

ECO PROCESSES: COMPLIANCE RATING

| | |
|---|---|
| TRAINING TYPE | REGULAR TRAINING |
| OBJECTIVE / DESCRIPTION OF TRAINING COURSES | <ul style="list-style-type: none"> • The course intends to provide an overview on the incentives, recognition, and value to compliance as an important component in attaining the objectives of the WESM. This course also intends to promote a culture of compliance and integrity in the WESM. |
| PROGRAM OUTLINE | <ul style="list-style-type: none"> • Criteria for Determining Compliance Rating Under the EWDO • Guiding Principles • Compliance Rating Formula • Offered Capacity Compliance Formula • Dispatch Conformance Standard Formula |

Please note:

- *All trainings offered are free of charge.*
- *Training schedules may change without prior notice.*
- *Training courses may be updated during the year, as proposed to and approved by the Compliance Committee.*
- *Course offerings are based on the revised PEMC-TSP Annual WCO Certification Program for 2022 – 2023 approved by the Compliance Committee on 06 June 2023.*
- *Approved Annual WCO Certification Program CY 2022-2023 Version 5 reflects updated assigned credit points for the Market Participants' Townhall and EMX 2023.*