info Tech
Institute for Private Training
معهد إنفو تك للتدريب الأهلي

Clean Energy Training Program

Course Title	**Clean Energy Training Program**
Country	**Malaysia**
Location	**4/5 Star Hotel**
Time	**9:00 AM - 3:00 PM**
Date	**06 - 10 April 2026**

Target Audience:

- Engineers and Technicians
- Power Plant Operators
- HSE and Sustainability Teams
- Supervisors and Administrators
- Professionals working in energy and environmental projects

Days 1–3: Classroom Training

Day 1 – Clean Energy and Sustainability Concepts

- Definition of clean energy and renewable energy
- Difference between Clean Energy, Renewable Energy, and Green Energy
- Importance of clean energy in sustainable development
- Clean energy sources:
    - Solar energy
    - Wind energy
    - Hydropower
    - Bioenergy
- Environmental and economic impacts of clean energy

Day 2 – Clean Energy Technologies and Systems

- Solar energy systems:
    - Solar PV systems
    - Solar thermal systems (concepts)
- Wind energy systems
- Hybrid energy systems
- Energy storage systems:
    - Battery systems
    - Energy storage concepts
- Grid integration of clean energy (conceptual overview)

Day 3 – Safety, Management, and Standards

- Safety in clean energy projects
- Occupational hazards in renewable energy systems
- Clean energy project management
- Key Performance Indicators (KPIs) in energy projects
- Overview of standards and policies:
    - Sustainability principles
    - Carbon neutrality
    - Environmental regulations

Days 4–5: On-the-Job Training (OJT)

Day 4 – OJT (Field Application 1)

- Field visit to a clean energy site:
    - Solar power plant
    - Wind power plant
    - Hybrid energy facility
- Identification of main system components
- Field risk identification
- Review of site safety procedures
- Observation of daily operational activities

Day 5 – OJT (Field Application 2)

- Monitoring system operation during live work
- Application of safe work procedures
- Discussion of real operational challenges
- Linking performance with energy production and sustainability
- Final session:
    - Lessons learned
    - Recommendations for performance and sustainability improvement

Program Outcomes:

- Understand clean energy concepts and technologies
- Identify renewable energy systems
- Comply with safety requirements
- Support sustainability and clean energy projects
- Contribute to reducing environmental impact

Training Materials:

- PowerPoint presentations (PPT)
- Clean energy system diagrams
- Field checklists
- Safety and sustainability templates
- Certificate of Completion