

MICROGRIDS: THE TECHNICAL ASPECT

A marketing overview prepared by Laura Fedoryshin

Course Overview

Power outages, rising energy costs, and sustainability concerns are driving the shift toward microgrids. This course, MICROGRIDS: THE TECHNICAL ASPECT, equips professionals with the skills to design, optimize, and manage resilient power systems. Learners will gain a foundational understanding of microgrid assets, their behaviours, selection criteria, and the role of electric power generation and distribution. This course is designed for professionals seeking practical knowledge in modern energy solutions.

Key Features

1. **Optimized Decision-Making:** Equip managers with the ability to evaluate and select the right microgrid assets to ensure operational efficiency and cost-effectiveness.
2. **Risk & Performance Management:** Learn to analyze asset behaviors and mitigate operational challenges related to power fluctuations, load demand, and environmental factors.
3. **Strategic Resource Allocation:** Gain insights into scalable and adaptable microgrid solutions, ensuring that assets are properly sized and available for diverse applications.
4. **Enhanced Power System Oversight:** Develop expertise in power generation, load balancing, and grid integration to improve system stability and sustainability.

Microlearnings

1. **Microgrid Assets** – Identify key microgrid components, their functions, and how they support energy resilience.
2. **Microgrid Asset Behaviors** – Analyze how assets respond to operational conditions, including load changes and environmental impacts.
3. **Selecting Microgrid Assets** – Learn how to assess asset size, availability, and input requirements for optimized microgrid performance.
4. **Electric Power Generation & Distribution** – Explore energy sources, load management, and grid integration strategies.

Market Positioning

1. **Target Audience:** Energy professionals, engineers, utility operators, and sustainability advocates looking to enhance their knowledge of microgrid technology.
2. **Competitive Edge:** With industries and governments investing in decentralized power solutions, professionals with microgrid expertise are in high demand. This course provides the skills needed to stay competitive in the evolving energy sector.