The integration of distributed generation, load balancing and energy storage form the model of a microgrid. Applications include large scale data centers, electric ships and commercial/industrial buildings, bringing the benefits of high efficiency, power quality, flexibility, stability, and reliability. Power Electronics (PE) have become an important part of modern microgrids. Not only are many storage and distributed generation systems connected to the microgrid via PE converters, many of the modern loads use some sort of power conversion to ensure high-efficiency and high-performance operation.

This course is targeted towards professionals with a background in engineering, including project engineers, program managers, system integrators, and utility engineers.

Course: Power Electronic Microgrids
Short Course
January 23-25, 2019

COURSE BENEFITS
Understand the challenges and state-of-the-art solutions when deploying and effectively managing microgrids.

Topics
• State-of-the-Art Microgrids
• Components & Energy Resources
• Protection & Coordination
• Primary & Secondary Controls
• Energy Management
• Cost-Benefit Analysis
• Field Implementation
• Future of Microgrids

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Location
PowerAmerica Institute
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930 Main Campus Drive, Suite 200
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Registration deadline is
December 20, 2018

Course Fee
$900 FREEDM Member
$1200 Non-Member
Covers: Materials, break refreshments and lunches

Register at https://www.freedm.ncsu.edu/event/short-course-microgrids/