
DENISON TECHNOLOGIES – TRAINING COURSES

Our power and energy courses provide a comprehensive range of skills and knowledge applicable to power system analysis, power electronics, data acquisition, motors and drives, and smart grids. Complete course descriptions, schedule, and registration information can be found [online](#) or by emailing training@denisonconsultinggroup.com. Standard courses are highlighted below:

Basic Power System Analysis (PA 101)

This course is an introductory power system course that covers the basics of power system apparatus including synchronous generators, transformers, transmission lines, AC motors, and distribution systems. The course starts with an overview of single-phase and three-phase AC circuits.



Advanced Power System Analysis (PA 201)

This course is a complement of the basic power system analysis training and is developed to introduce more advanced topics in power systems including transmission line modeling, faults, economic dispatch, and generator control.



Introduction to Power Electronics (PE 101)

Power electronics, in general, are used to process and control the flow of electric energy by supplying voltages/currents that are optimally suited for loads. The introduction to power electronics improves your understanding of power electronic systems and applications, semiconductor devices, electromagnetic conversion, rectifiers, and switch mode direct current converters.



Advanced Power Electronics (PE 201)

By taking the advanced power electronics training course, you will understand the operation and design of single-phase inverters, three-phase inverters, pulse width modulation (PWM) techniques applied to inverters, and effect of switching schemes on the operation of power electronics inverters. The advanced power electronics training covers the application of switch-mode DC-AC converters (inverters) and power supply applications and more.





Fundamentals of Data Acquisition (DA 201)

Fundamentals of data acquisition training course will cover all aspects of data acquisition systems from design to installation and configuration. This course provides both novice and experienced users with a solid understanding of interfaces used in data acquisition.



Introduction to Motor Drives (MD 101)

In this course, you will learn the basics of power electronics converters for motor drive applications and specifically covers the DC motor drive systems. This course helps you understand the basics of DC motor drives and understand how to select the motor drive components for maximum efficiency.



Advanced Motor Drives (MD 201)

This course helps you to understand the operation of induction motor drives and synchronous motor drives and empowers you to apply the information for any other designs. The course starts with induction motor drives, their operating principles, and practical applications. Equivalent circuit diagrams of induction motors and their principles of operation will be covered.



Introduction to Smart Grids (SG 101)

The introduction to smart grids course covers the basics of smart grids, the main difference between the smart grid and traditional grids, application of renewable energy generation sources in smart grids, and control of distributed energy resources (DERs), and energy storage technologies used in power generation systems.



About Denison Technologies

Denison Technologies is your engineering partner identifying and correcting often unseen power quality events that are frequently the cause of costly production failure, destruction of critical plant assets, and the confusion of plant floor operations. Denison Technologies provides an easy path to remedy the unseen power events from initial snapshot diagnostic reporting with a click and upload of your data to continuous monitoring of your global plant operations. Our turnkey, open architecture and vendor agnostic approach has garnered Denison as “one of the top 10 in the country” in manufacturing intelligence for 2 consecutive years.