

Generator Systems

This course provides a comprehensive overview of the emergency standby generator. The codes and standards for inspection, testing and maintenance are reviewed. The key components inherent in this system will be focused on to discuss typical problems and solutions. Anyone who works on or near power generation, transmission, or distribution systems should attend this course. Additionally, supervisors, managers, safety personnel, and those responsible for ensuring a safe work environment should attend this course.

Codes and Standards

Introduction and General Code Requirements Routine Maintenance and Operational Testing National Electrical Codes for Ground Fault Systems

Power system overview

Voltage VAR Load KW Load

Function Design

General Theory of Operation Air systems Fuel system Lubricating system Battery systems Prime Mover Controls Instruments Speed Control Relay Logic Advances and Retrofit Generator Control Voltage Regulation Duration: 8 Hour Program

System Operation

Automated Manual Connecting to Load Paralleling System Monitoring

Maintenance & Troubleshooting

Engine Control Problems Slow Start Hunting Load Response Generator Control Problems Regulation Industry Standards for Testing NETA System Documentation OEM Manuals Determining Spare Parts History Manufacturer's Recommendations Trouble Log

Case Studies

Review of Participant's Problems Review of Previous Jobs and Case Studies

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