

Power Generation Class Descriptions

Cummins Southern Plains, Ltd.

RV Gas Skills

This course includes familiarization of RV Gensets, Advantage, MicroLite, Marquis, Marquis Gold, Marquis Platinum and Equinox. The course focuses on basic theory, troubleshooting and repair, operation, and maintenance. Class will include a practical assessment for qualification.

Prerequisites:

- Basic working knowledge of AC/DC electrical theory and fundamentals.
- Basic Gasoline maintenance, troubleshooting and repair
- Completion of Power Generation University basic RV courses

Course length: 2 days

RV Diesel Skills

This course includes familiarization of RV Gensets, Quiet Diesel and Equinox. The course focuses on basic theory, troubleshooting and repair, operation, and maintenance. Class will include practical assessments for qualification.

Prerequisites:

- Basic working knowledge of AC/DC electrical theory and fundamentals.
- Basic Gasoline and Diesel maintenance, troubleshooting and repair
- Completion of Power Generation University basic RV courses

Course length: 2 days

Yesterday's Automatic Transfer Switch

This course concentrates on adjustments, service and troubleshooting of Onan LT, LT26, LTII, AT, OT, and OTII transfer switches through a combination of classroom and hands-on training experiences. Technicians learn to use electrical diagrams and manuals to troubleshoot and repair Onan transfer switches.

Prerequisites:

- Basic working knowledge of AC/DC electrical theory and fundamentals.
- Have the ability to read and interpret Onan schematics and wiring diagrams
- PowerGen Level 1 Industrial Certification

Course Length: 5 days

Automatic Transfer Switch

This course concentrates on installation, adjustment, service and troubleshooting of Onan LTIII and OTIII through a combination of classroom and hands-on training experiences. Students learn to use electrical diagrams and manuals to troubleshoot and repair Onan transfer switches.

Prerequisites:

- Basic working knowledge of AC/DC electrical theory and fundamentals
- Have the ability to read and interpret Onan schematics and wiring diagrams
- PowerGen Level 1 Industrial Certification

Course Length: 5 days

InPower & OTPC Transfer Switch

This course covers installation, operation, troubleshooting and repair of the Onan OTPC "Smart Switch". Training on microprocessor based operating system. Training to include the InPower software capabilities. The InPower portion of the class covers installation and use of the Onan InPower Software to set up calibrations, troubleshoot and download "Capture: files. Training will also include setup of the software on the students' computer and use of the control menu system to set up operating parameters.

Prerequisites:

- Automatic Transfer switches
- PowerGen Level 1 Industrial Certification

Course Length: 5 days

NOTE: EACH STUDENT MUST BRING A LAPTOP COMPUTER EACH DAY

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OSPS Paralleling System

This course will cover the basics of paralleling, governor and regulator adjustments, operation, troubleshooting, and system adjustments. The class is a combination of class room and shop hands-on training with a working OSPS system. The student will learn how to adjust the system for proper performance and use electrical diagrams and manuals to troubleshoot and repair the system.

Prerequisites:

- PowerGen Level 2 Industrial Certification
- Have the ability to read and interpret Onan schematics and wiring diagrams

Course Length: 5 days

BTPC (Bypass Transfer PowerCommand) Transfer Switch

This course is designed to introduce the new Bypass Transfer PowerCommand ATS transfer switch. Participants will learn where the ATS hardware is located and the function of each module in the control.

Prerequisites

- InPower Software Qualification
- OTPC Transfer Switch Qualification
- BT Switch Qualification

Course Length: 2 days

NOTE: EACH STUDENT MUST BRING A LAPTOP COMPUTER WITH INPOWER SOFTWARE PRE-INSTALLED!

Bypass Transfer Switch

This course concentrates on installation, adjustment, service and troubleshooting of Onan BT (By-Pass Transfer) switch through a combination of classroom and hands-on training experiences. Students learn to use electrical diagrams and manuals to troubleshoot and repair Onan By-Pass transfer switches.

Prerequisites:

- Have the ability to read and interpret Onan schematics and wiring diagrams
- Automatic Transfer Switch qualification
- PowerGen Level 2 Industrial Certification

Course Length: 2days

Large Commercial Product

This program covers power generations sets 20 kW and larger. Specific topics include theory of operation, troubleshooting and repair of Detector Control, Newage generators, and voltage regulators. Technicians will use electrical schematics, meters and service publications to perform hands-on repairs.

Prerequisites:

- Basic working knowledge of AC/DC electrical theory and fundamentals.
- Fundamentals of Standby Equipment or equivalent training and/or experience.

Course Length 5 days

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OHPC/CHPC Transfer Switch

(Open Transition and Closed Transition) Transfer Switch (688/689)

This course is designed to introduce the new Open Transition and Closed Transition Transfer PowerCommand ATS transfer switch and the new transfer switch mechanism. Participants will learn the ATS hardware location and functions. The control segment will be expanded from the OTPC transfer switch course.

Prerequisites:

- InPower Software Qualification
- OTPC Transfer Switch Qualification
- PowerGen Level 2 Industrial Certification

Course Length: 3 days

NOTE: EACH STUDENT MUST BRING A LAPTOP COMPUTER WITH INPOWER SOFTWARE PRE-INSTALLED!

PowerCommand Control 2100

This course is designed to introduce the PowerCommand Control 2100. The technicians will learn control hardware and functions of each module. The course includes installation, operation, and troubleshooting practices. Troubleshooting will expand the use of InPower service Tool software

Prerequisites

- InPower Software Qualification
- PowerCommand Control 2100 Computer-Based Training (CBT) course
- PowerGen Level 1 Industrial Certification

Course Length: 3 Days

NOTE: EACH STUDENT MUST BRING A LAPTOP COMPUTER WITH INPOWER SOFTWARE PRE-INSTALLED!

PowerCommand Control 3100

This course concentrates on installation, operation, adjustment and troubleshooting of the PowerCommand Control. Review of the menu systems as well as voltage regulator and governor adjustments. Upon completion of classroom instructions, students will participate in a written and hands-on qualification assessment

Prerequisites:

- QST30 Genset Engine CVC (BN 3898577)
- PowerGen Level 1 Industrial Certification

Course Length: 3 Days

PowerCommand Control 3200

This course is designed to introduce the PowerCommand Control 3200 used on Cummins full-authority electronic engines. The technicians will learn control hardware and functions of each module. This course also includes an introduction to the GCS module used by GOEMs in building G-Drive generators. The course includes installation, operation, and troubleshooting practices. Troubleshooting will expand the use of InPower service Tool software

Prerequisites

- InPower Software Qualification
- PowerGen Level 2 Industrial Certification
- QSK45/60 Virtual College
- PCC 3100 Qualification

Course Length: 3 Days

NOTE: EACH STUDENT MUST BRING A LAPTOP COMPUTER WITH INPOWER SOFTWARE PRE-INSTALLED!

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PowerCommand Control 1301 & PCC Net

This course is designed to introduce the PowerCommand Control 1301 and PCC Net communication modules. The technicians will learn control hardware and features. The course includes installation, operation, and troubleshooting practices. Troubleshooting will expand the use of InPower service Tool software

Prerequisites

- InPower Software Qualification
- PowerGen Level 1 Industrial Certification

Course Length: 3 Days

Paralleling Load Transfer Equipment

This course is designed to provide knowledge on how to Start-Up, Maintain, and Troubleshoot the Keystone based PLT series equipment.

Prerequisites

- InPower Software Qualification
- OTPC Transfer Switch Qualification
- PowerGen Level 2 Industrial Certification

Course Length: 2 Days

PowerRent

This course is designed to enable technicians to install, operate, maintain and repair PowerRent generator packages. The distribution panel, wiring diagrams, breakers, safety, and troubleshooting considerations unique to PowerRent packages will be discussed. This course includes paralleling concepts and appropriate connections of PowerRent.

Prerequisites

- Large Commercial Qualification
- PCC 3100 Qualification
- PCC 3200 Qualification
- PowerGen Level 2 Industrial Certification

Course Length: 2 Days

Digital Paralleling (DMC1)

This course covers installation, operation and troubleshooting Digital Paralleling Systems. Topics include: Fundamentals of paralleling in Isolated and Infinite bus applications. Sequence of operation in Automatic, Semi-automatic and Manual paralleling modes. Digital Master Control components, operation, adjustments and troubleshooting. Reading and interpreting system schematics, interconnections and start-up review

Prerequisites

- PCC 3100 Qualification
- PCC 3200 Qualification
- PowerGen Level 2 Industrial Certification

Course Length: 5 Days