

<b>DIESEL POWER AND GENERATION WORKSHOP</b>			
<b>DAY 1</b>	<b>DAY 2</b>	<b>DAY 3</b>	<b>DAY 4</b>
0800 - 0850	0800 - 0850	0800 - 0850	0800 - 0850
Introduction, Course Description, Basic Vessel Design Stability, Compartmentation, Flooding Prevention	Structure, Strength and Properties of Materials, Fuel, lubrication fluids, coolants	EMD engine power pack and front end disassembly	EMD 567, 645, 710 Series, History, components
0900-0950	0900-0950	0900-0950	0900-0950
Basic Cycle 2 cycle and 4 cycle principles	Steering and Controls including pneumatics, hydraulics and electrical interface	EMD engine power pack and front end disassembly	EMD Systems and Troubleshooting
1000-1050	1000-1050	1000-1050	1000-1050
Components - pistons, bearings, valves, turbochargers, etc.	Types of Propulsion, Propellers, Thrusters, Reduction Gears, Shafting and Bearings, Alignment	EMD engine power pack and front end disassembly	Detroit Diesel family MTU 2000 series
1100-1150	1100-1150	1100-1150	1100-1150
Lubrication, Fuel quality and Basic Maintenance Issues	Pumps, Valves, Piping Systems, bilge, ballast, fuel, lubrication, cooling, air flow	EMD engine reassembly	MTU 4000 series
LUNCH	LUNCH	LUNCH	LUNCH
1300-1350	1300-1350	1300-1350	1300-1350
Proper operation of equipment, starting, stopping, limitations	Power demand and development Fuel System, Components	EMD engine reassembly	Cummins small engine series
1400-1450	1400-1450	1400-1450	1400-1450
Basic Hydraulics, Pneumatics, Electricity, Safety, Circuits, Breakers, Fuses	CAT small engines, C Series	EMD engine reassembly, adjustments, fuel system setup	Cummins KTA, QSK series
1500-1615	1500-1615	1500-1615	1500-1615
Batteries, DC Circuits, Transistors, Integrated Circuits, Maintenance	CAT 3500, 3600 Series	EMD engine reassembly, adjustments, fuel system setup	Heating, Ventilation, Air Conditioning, Exhaust emissions, Rules, Repowers
Optional	Optional	Optional	Optional
Troubleshooting Basics	Troubleshooting engines and systems	EMD Engine Upgrades and Updates	Diesel Power and Electrical Review