



SECTIONS

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CBT COURSE AREAS

Book 1 (B1)

Detailed 3D animations of Systems and Process Flows. These books include chapters that cover a specific area, such as 7FA firing modes or Lube oil. They include review questions. We are continually adding new content such as reference photos, control screens, piping and instrument drawings and other related content.

Book 2 (B2)

Control Screen Navigation and Familiarization. These books are created to provide an overview of the function of each control screen as well as navigation between control screens.

Book 3 (B3)

Unit Startup and Operation. This book provides a step-by-step explanation, using control screens for GT, ST, HRSG and BOP as well as sample walk down lists and other relevant content to describe the startup of a combined cycle plant.

Book 4 (B4)

System Troubleshooting. Only developed through content that is specific to a site and where the content is provided by the customer.

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2X1 combined cycle, GE 7FA gas turbine, Nooter-Eriksen 3-pressure HRSGs, GE D11 steam turbine, water-cooled condenser, site electrical distribution, and conventional cooling tower. Generator course available featuring generator construction, theory, fault protection, and LCI operation.	
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2X1 combined cycle, Siemens 501 gas turbine, NEM 3-pressure HRSGs, GE D11 steam turbine, water-cooled condenser, conventional cooling tower with plume abatement equipment, zero-liquid discharge facility, recycled water facility, site electrical distribution, and an oil-flooded screw-type gas compressor station.	
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Dual supercritical B&W coal fired units, two GE Cross-tandem 750MW steam turbines, baghouse, flue gas desulfurization system, and lime slaking system. A hydrogen-cooled generator course is available for this steam turbine set.	
Coal Plant 2	36
Dual subcritical C-E coal fired units, two GE tandem 800MW steam turbines, Mercury Removal System, condensate and feedwater systems, and circulating water system featuring natural draft cooling towers.	



Course #	Course Title	Duration
Gas Turbine Fundamentals		1 hr. 22 mins.
GEN00A_0301_B1	Gas Turbine	
GEN00A_0301_B1_Ch1	Simple Cycle	21 minutes
GEN00A_0301_B1_Ch2	Air Path	13 minutes
GEN00A_0301_B1_Ch3	Hot Gas Path	16 minutes
GEN00A_0301_B1_Ch4	Turbine Section	17 minutes
GEN00A_0301_B1_Ch5	Auxiliary Equipment	15 minutes
Heat Recovery Steam Generator Fundamentals		1 hr. 54 mins.
GEN00A_0401_B1	HRSG Fundamentals	
GEN00A_0401_B1_Ch1	Overview	11 minutes
GEN00A_0401_B1_Ch2	Steam	16 minutes
GEN00A_0401_B1_Ch3	Feedwater	11 minutes
GEN00A_0401_B1_Ch4	Level Control	27 minutes
GEN00A_0401_B1_Ch5	Emission Reduction	12 minutes
GEN00A_0401_B1_Ch6	Equipment	19 minutes
GEN00A_0401_B1_Ch7	Operation	18 minutes
Steam Turbine Fundamentals		1 hr. 5 mins.
GEN00A_0501_B1	Steam Turbine Fundamentals	
GEN00A_0501_B1_Ch1	Design	21 minutes
GEN00A_0501_B1_Ch2	Components	10 minutes
GEN00A_0501_B1_Ch3	Operation	18 minutes
GEN00A_0501_B1_Ch4	Condensate	16 minutes

Course Catalog: Combined Cycle Fundamentals (continued)

Course #	Course Title	Duration
Generator Fundamentals		1 hr. 55 mins.
GEN00A_0601_B1	Generator Fundamentals	
GEN00A_0601_B1_Ch1	Overview	10 minutes
GEN00A_0601_B1_Ch2	Design	16 minutes
GEN00A_0601_B1_Ch3	Auxiliary Systems	18 minutes
GEN00A_0601_B1_Ch4	Energizing	15 minutes
GEN00A_0601_B1_Ch5	MW and MVAR	18 minutes
GEN00A_0601_B1_Ch6	Load Control	12 minutes
GEN00A_0601_B1_Ch7	Fault Protection	26 minutes
Combined Cycle Plant Operation Fundamentals		2 hrs. 11 mins.
GEN00A_0701_B1	Plant Operation Fundamentals	
GEN00A_0701_B1_Ch1	Overview	17 minutes
GEN00A_0701_B1_Ch2	Water Balance	19 minutes
GEN00A_0701_B1_Ch3	Water Treatment	15 minutes
GEN00A_0701_B1_Ch4	Electrical	20 minutes
GEN00A_0701_B1_Ch5	Heat Rate	17 minutes
GEN00A_0701_B1_Ch6	Output	16 minutes
GEN00A_0701_B1_Ch7	CEMS	27 minutes
Gas Turbine Routine Maintenance Fundamentals		2 hrs. 53 mins.
GEN00A_1001_B1	Gas Turbine Routine Maintenance Fundamentals	
GEN00A_1001_B1_Ch1	Overview	28 minutes
GEN00A_1001_B1_Ch2	Preventive Maintenance	23 minutes
GEN00A_1001_B1_Ch3	Combustion Inspection Overview	9 minutes
GEN00A_1001_B1_Ch4	Pre-Maintenance Procedures	14 minutes
GEN00A_1001_B1_Ch5	Combustion System Inspection	49 minutes
GEN00A_1001_B1_Ch6	Combustion System Reassembly	50 minutes

Course Catalog: **Combined Cycle Fundamentals** (continued)

Course #	Course Title	Duration
7FA Hot Gas Path Maintenance		4 hrs. 34 mins.
GEN00A_1002_B1	7FA Hot Gas Path Maintenance	
GEN00A_1002_B1_Ch1	Overview	12 minutes
GEN00A_1002_B1_Ch2	HGP Clearance Measurements	19 minutes
GEN00A_1002_B1_Ch3	HGP Turbine Casing Removal	29 minutes
GEN00A_1002_B1_Ch4	HGP Concentricity, Rotor Float, and Clearance Checks	16 minutes
GEN00A_1002_B1_Ch5	HGP Component Removal	25 minutes
GEN00A_1002_B1_Ch6	HGP Inspection	40 minutes
GEN00A_1002_B1_Ch7	HGP Turbine Section Assembly	1 hr. 25 mins.
GEN00A_1002_B1_Ch8	HGP Assembly Clearances	10 minutes
GEN00A_1002_B1_Ch9	HGP Combustion Section Assembly	25 minutes
GEN00A_1002_B1_Ch10	HGP External Equipment Assembly and Testing	13 minutes

Course #	Course Title	Duration
Plant 1 - 2 on 1, Siemens 501FD2 Gas Turbine, 3-Drum NEM HRSG, MHI Steam Turbine, Water Cooled Condenser, Cooling Towers		4 hrs. 2 mins.
GEN01A_0111_B1	Siemens 501FD2 Gas Turbine	1 hr. 17 mins.
	501FD2 Gas Turbine System and Process Flows	
GEN01A_0111_B1_Ch1	Inlet Air	9 minutes
GEN01A_0111_B1_Ch2	Compressor Section	7 minutes
GEN01A_0111_B1_Ch3	Combustor and Turbine	9 minutes
GEN01A_0111_B1_Ch4	Fuel Gas System	10 minutes
GEN01A_0111_B1_Ch5	Lube Oil System	8 minutes
GEN01A_0111_B1_Ch6	Bleed Air System	11 minutes
GEN01A_0111_B1_Ch7	Kettle Boiler	7 minutes
GEN01A_0111_B1_Ch8	Electrical Starting System	9 minutes
GEN01A_0111_B1_Ch9	Electrical Distribution System	7 minutes
GEN01A_0121_B1	NEM 3-Drum HRSG	1 hr. 16 mins.
	NEM 3-drum HRSG Systems and Process Flows	
GEN01A_0121_B1_Ch1	General Design	10 minutes
GEN01A_0121_B1_Ch2	Water Flowpaths	13 minutes
GEN01A_0121_B1_Ch3	Steam Flowpaths	12 minutes
GEN01A_0121_B1_Ch4	Selective Catalytic Reduction System	4 minutes
GEN01A_0121_B1_Ch5	Condensate Supply	5 minutes
GEN01A_0121_B1_Ch6	LP Steam	12 minutes
GEN01A_0121_B1_Ch7	BFW Pumps	5 minutes
GEN01A_0121_B1_Ch8	IP Steam	7 minutes
GEN01A_0121_B1_Ch9	Main Steam Flow	8 minutes
GEN01A_0131_B1	MHI Steam Turbine	1 hr. 29 mins.
	MHI Steam Turbine Systems and Process Flows	
GEN01A_0131_B1_Ch1	Overview	13 minutes
GEN01A_0131_B1_Ch2	Main Steam Flow	13 minutes
GEN01A_0131_B1_Ch3	Reheat Steam Flow	8 minutes
GEN01A_0131_B1_Ch4	Low Pressure Steam Flow	7 minutes
GEN01A_0131_B1_Ch5	Main Steam Components	7 minutes
GEN01A_0131_B1_Ch6	Reheat Steam Components	6 minutes
GEN01A_0131_B1_Ch7	Low Pressure Steam Components	5 minutes
GEN01A_0131_B1_Ch8	Generator Overview	3 minutes
GEN01A_0131_B1_Ch9	Lube Oil System	11 minutes
GEN01A_0131_B1_Ch10	Turning Gear	3 minutes
GEN01A_0131_B1_Ch11	Control Oil	4 minutes
GEN01A_0131_B1_Ch12	Gland Steam Condenser	9 minutes

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
Plant 2 - 2 on 1, GE 7FA Gas Turbine, 3-Drum Nooter-Eriksen HRSG, GE D-11 Steam Turbine, Water Cooled Condenser, Cooling Towers		38 hrs. 42 mins.
GEN01A_0201_B1	Combined Cycle Site Overview – System Description and Process Flow	1 hr. 59 mins.
	Systems and Flowpath Overview for Gas Turbine, HRSG, Steam Turbine, Condenser, Condensate, Power Distribution, Cooling Towers	
GEN01A_0201_B1_Ch1	Site Overview	10 minutes
GEN01A_0201_B1_Ch2	7FA Gas Turbine Overview	8 minutes
GEN01A_0201_B1_Ch3	7FA Generator Overview	11 minutes
GEN01A_0201_B1_Ch4	7FA Gas Turbine Routine Maintenance Overview	28 minutes
GEN01A_0201_B1_Ch5	7FA Gas Turbine Major Inspections Overview	12 minutes
GEN01A_0201_B1_Ch6	NE 3-Drum HRSG Overview	11 minutes
GEN01A_0201_B1_Ch7	D-11 Steam Turbine Overview	11 minutes
GEN01A_0201_B1_Ch8	Condensate System Overview	12 minutes
GEN01A_0201_B1_Ch9	Circulating Water System Overview	6 minutes
GEN01A_0201_B1_Ch10	Electrical Distribution Overview	10 minutes
GEN01A_0211_B1	GE 7FA Gas Turbine	2 hrs. 48 mins.
	Systems and Process Flows for 7FA Gas Turbine with Mark VI Controls	
GEN01A_0211_B1_Ch0	Overview	9 minutes
GEN01A_0211_B1_Ch1	Inlet Air	8 minutes
GEN01A_0211_B1_Ch2	Compressor Section	12 minutes
GEN01A_0211_B1_Ch3	Combustors and Turbine Section	15 minutes
GEN01A_0211_B1_Ch4	Fuel Gas System	22 minutes
GEN01A_0211_B1_Ch5	Lube Oil Supply Distribution	17 minutes
GEN01A_0211_B1_Ch6	EHC Supply and Distribution	26 minutes
GEN01A_0211_B1_Ch7	Compressor Bleed System	10 minutes
GEN01A_0211_B1_Ch8	Generator Overview	12 minutes
GEN01A_0211_B1_Ch9	Turbine Start	37 minutes
GEN01A_0211_B2	7FA Control Screen Description & Navigation	4 hrs. 5 mins.
	Control Screen Familiarization for Mark VI Control Screens	
GEN01A_0211_B2_Ch1	Introduction to 7FA Screen Familiarization	5 minutes
GEN01A_0211_B2_Ch2	7FA Mark VI Control Group Familiarization	60 minutes
GEN01A_0211_B2_Ch3	7FA Mark VI Auxiliary Group Familiarization	60 minutes
GEN01A_0211_B2_Ch4	7FA Mark VI Monitor Group Familiarization	60 minutes
GEN01A_0211_B2_Ch5	7FA Mark VI Test Screen Familiarization	60 minutes

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
GEN01A_0212_B1	7FA Hydrogen Cooled Generator	3 hrs. 50 mins.
GEN01A_0212_B1_Ch1	Generator Overview	12 minutes
GEN01A_0212_B1_Ch2	Generator Fault Protection	33 minutes
GEN01A_0212_B1_Ch3	Generator Seal Oil System	20 minutes
GEN01A_0212_B1_Ch4	Generator Hydrogen System	18 minutes
GEN01A_0212_B1_Ch5	Stator Design	25 minutes
GEN01A_0212_B1_Ch6	Rotor Design	22 minutes
GEN01A_0212_B1_Ch7	Power Generation	29 minutes
GEN01A_0212_B1_Ch8	Reactive Power	23 minutes
GEN01A_0212_B1_Ch9	LCI Overview	32 minutes
GEN01A_0212_B1_Ch10	LCI Operation	16 minutes
GEN01A_0213_B1	7FA Gas Turbine Routine Maintenance	2 hrs. 53 mins.
GEN01A_0213_B1_Ch1	Overview	28 minutes
GEN01A_0213_B1_Ch2	Preventive Maintenance	23 minutes
GEN01A_0213_B1_Ch3	Combustion Inspection Overview	9 minutes
GEN01A_0213_B1_Ch4	Pre-Maintenance Procedures	14 minutes
GEN01A_0213_B1_Ch5	Combustion System Inspection	49 minutes
GEN01A_0213_B1_Ch6	Combustion System Reassembly	50 minutes
GEN01A_0214_B1	7FA Gas Turbine Major Inspections	4 hrs. 35 mins.
GEN01A_0214_B1_Ch1	Overview	12 minutes
GEN01A_0214_B1_Ch2	HGP Clearance Measurements	19 minutes
GEN01A_0214_B1_Ch3	HGP Turbine Casing Removal	29 minutes
GEN01A_0214_B1_Ch4	HGP Concentricity, Rotor Float, and Clearance Checks	16 minutes
GEN01A_0214_B1_Ch5	HGP Component Removal	25 minutes
GEN01A_0214_B1_Ch6	HGP Inspection	41 minutes
GEN01A_0214_B1_Ch7	HGP Turbine Section Assembly	1 hr. 25 mins.
GEN01A_0214_B1_Ch8	HGP Assembly Clearances	10 minutes
GEN01A_0214_B1_Ch9	HGP Combustion Section Assembly	25 minutes
GEN01A_0214_B1_Ch10	HGP External Equipment Assembly and Testing	13 minutes
GEN01A_0221_B1	Nooter-Eriksen 3-Drum HRSG	1 hr. 56 mins.
	Systems & Process Flows for 3-Drum NE HRSG with duct burners, Ammonia Injection, Superheat and Reheat bypass to Condenser	
GEN01A_0221_B1_Ch1	Overview	12 minutes
GEN01A_0221_B1_Ch2	LP System Overview	40 minutes
GEN01A_0221_B1_Ch3	IP System Overview	13 minutes
GEN01A_0221_B1_Ch4	HP System Overview	15 minutes
GEN01A_0221_B1_Ch5	Emissions & SCR System	9 minutes
GEN01A_0221_B1_Ch6	Blowdown System Overview	15 minutes
GEN01A_0221_B1_Ch7	Duct Burners Overview	12 minutes

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
GEN01A_0231_B1	D-11 Steam Turbine System Description and Process Flows	1 hr. 34 mins.
	Systems and Process Flows for D-11 Steam Turbine with Combined Stop & Control Valves for Main Steam & Reheat	
GEN01A_0231_B1_Ch1	Overview	12 minutes
GEN01A_0231_B1_Ch2	High Pressure Steam	20 minutes
GEN01A_0231_B1_Ch3	Reheat Steam	10 minutes
GEN01A_0231_B1_Ch4	Low Pressure Steam	10 minutes
GEN01A_0231_B1_Ch5	Lube Oil System	18 minutes
GEN01A_0231_B1_Ch6	Steam Turbine Starting	24 minutes
GEN01A_0231_B2	D-11 Steam Turbine Mark VI Control System	4 hrs. 5 mins.
	Control Screen Familiarization for D11 Mark VI Control Screens	
GEN01A_0231_B2	D-11 Mark VI Control Screen Familiarization	5 minutes
GEN01A_0231_B2	D-11 Mark VI Control Group Familiarization	60 minutes
GEN01A_0231_B2	D-11 Mark VI Monitor Group Familiarization	60 minutes
GEN01A_0231_B2	D-11 Mark VI Auxiliary Group Familiarization	60 minutes
GEN01A_0231_B2	D-11 Mark VI Test Group Familiarization	60 minutes

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
GEN01A_0240	Plant 2 - Balance of Plant	2 hrs. 40 mins.
GEN01A_0241_B1	BOP - Condensate System	43 Minutes
	Condensate System and Process Flows	
GEN01A_0241_B1_Ch1	Overview	12 minutes
GEN01A_0241_B1_Ch2	Condenser Overview	10 minutes
GEN01A_0241_B1_Ch3	Air Ejector and Gland Seal Condenser	21 minutes
GEN01A_0242_B1	BOP - Circulating Water	39 Minutes
	Circulating Water System and Process Flows	
GEN01A_0242_B1_Ch1	Overview	6 minutes
GEN01A_0242_B1_Ch2	Cooling Tower	9 minutes
GEN01A_0242_B1_Ch3	Cooling Tower Chemicals	24 minutes
GEN01A_0244_B1	BOP - Electrical Distribution	1 hr. 18 mins.
GEN01A_0244_B1_Ch1	Overview	10 minutes
GEN01A_0244_B1_Ch2	High Voltage 13.8kV and Above	8 minutes
GEN01A_0244_B1_Ch3	4160V Electrical System	9 minutes
GEN01A_0244_B1_Ch4	4160V Breaker	27 minutes
GEN01A_0244_B1_Ch5	480V Electrical System	15 minutes
GEN01A_0244_B1_Ch6	DC and UPS Systems	9 minutes
GEN01A_0290_B3	Cold Start-up	8 hrs. 17 mins.
GEN01A_0290_B1_Ch0	Start Familiarization	2 minutes
GEN01A_0290_B1_Ch1	CT Prestarts	40 minutes
GEN01A_0290_B1_Ch2	ST Prestarts	30 minutes
GEN01A_0290_B1_Ch3	DCS Prestarts	45 minutes
GEN01A_0290_B1_Ch4	FG and Aux Boiler	40 minutes
GEN01A_0290_B1_Ch5	Condenser Vacuum	40 minutes
GEN01A_0290_B1_Ch6	Lead CT Start	40 minutes
GEN01A_0290_B1_Ch7	ST Preparations	40 minutes
GEN01A_0290_B1_Ch8	ST Roll and Sync	40 minutes
GEN01A_0290_B1_Ch9	Loading the ST and Lag CT Start	1 hour
GEN01A_0290_B1_Ch10	Blendng and Loading	1 hour
GEN01A_0290_B1_Ch11	Duct Burners	1 hour*

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
	Plant 3 - 2 on 1, Siemens 501FD2 Gas Turbine, 3-Drum Nooter-Eriksen HRSG, GE D-11 Steam Turbine, Water Cooled Condenser, Cooling Towers, ZLD	16 hrs. 14 mins.
GEN01A_0301_B1	Plant 3 Site Overview	1 hr. 44 mins.
GEN01A_0301_B1_Ch1	Site Overview	12 minutes
GEN01A_0301_B1_Ch2	501FD2 Gas Turbine Overview	13 minutes
GEN01A_0301_B1_Ch3	NE 3-Drum HRSG Overview	10 minutes
GEN01A_0301_B1_Ch4	D-11 Steam Turbine Overview	12 minutes
GEN01A_0301_B1_Ch5	Condensate System Overview	12 minutes
GEN01A_0301_B1_Ch6	Circulating Water System Overview	13 minutes
GEN01A_0301_B1_Ch7	Electrical Distribution System Overview	10 minutes
GEN01A_0301_B1_Ch8	ZLD System Overview	9 minutes
GEN01A_0301_B1_Ch9	Gas Compressor Station Overview	7 minutes
GEN01A_0301_B1_Ch10	Recycled Water Facility Overview	6 minutes
GEN01A_0311_B1	Siemens 501FD2 Gas Turbine	1 hr. 16 mins.
	501 Gas Turbine Systems and Process Flows	
GEN01A_0311_B1_Ch1	Overview	13 minutes
GEN01A_0311_B1_Ch2	Fuel Gas Supply	13 minutes
GEN01A_0311_B1_Ch3	Compressor Section	8 minutes
GEN01A_0311_B1_Ch4	Fuel Gas Control	12 minutes
GEN01A_0311_B1_Ch5	Lube Oil System	12 minutes
GEN01A_0311_B1_Ch6	Bleed Air System	12 minutes
GEN01A_0311_B1_Ch7	Kettle Boiler	6 minutes
GEN01A_0321_B1	Nooter Eriksen 3-Drum HRSG	1 hr. 54 mins.
	Systems and Process Flows for NE 3-Drum HRSG with Systems & Processes, Control & Operation	
GEN01A_0321_B1_Ch1	Overview	10 minutes
GEN01A_0321_B1_Ch2	LP System Overview	40 minutes
GEN01A_0321_B1_Ch3	IP System Overview	13 minutes
GEN01A_0321_B1_Ch4	HP System Overview	15 minutes
GEN01A_0321_B1_Ch5	Emissions & SCR System	9 minutes
GEN01A_0321_B1_Ch6	Blowdown System Overview	15 minutes
GEN01A_0321_B1_Ch7	Duct Burners Overview	12 minutes

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
GEN01A_0331_B1	D-11 ST System Description & Process Flows	1 hr. 31 mins.
	D-11 Steam Turbine Systems and Process Flows	
GEN01A_0331_B1_Ch1	Overview	12 minutes
GEN01A_0331_B1_Ch2	High Pressure Steam	21 minutes
GEN01A_0331_B1_Ch3	Reheat Steam	10 minutes
GEN01A_0331_B1_Ch4	Low Pressure Steam	6 minutes
GEN01A_0331_B1_Ch5	Lube Oil System	18 minutes
GEN01A_0331_B1_Ch6	Steam Turbine Start	24 minutes
GEN01A_0331_B2	Control Screen Description & Navigation	4 hrs. 5 mins.
	D-11 ST Mark VI Control Screen Familiarization	
GEN01A_0331_B2_Ch1	D-11 Introduction to Screen Familiarization	5 minutes
GEN01A_0331_B2_Ch2	D-11 Mark VI Control Group Screens	1 hour
GEN01A_0331_B2_Ch3	D-11 Mark VI Monitor Group Screens	1 hour
GEN01A_0331_B2_Ch4	D-11 Mark VI Auxiliary Group Screens	1 hour
GEN01A_0331_B2_Ch5	D-11 Mark VI Tests Group Screens	1 hour

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
GEN01A_0340	Plant 3 - Balance of Plant	5 hrs. 44 mins.
GEN01A_0341_B1	BOP - Condensate System	43 Minutes
	Condensate System and Process Flows	
GEN01A_0341_B1_Ch1	Overview	12 minutes
GEN01A_0341_B1_Ch2	Condenser Overview	9 minutes
GEN01A_0341_B1_Ch3	Air Ejector and Gland Seal Condenser	22 minutes
GEN01A_0342_B1	BOP - Circulating Water	1 hr. 5 mins.
	Circulating Water System and Process Flows	
GEN01A_0342_B1_Ch1	Overview	12 minutes
GEN01A_0342_B1_Ch2	Cooling Tower	25 minutes
GEN01A_0342_B1_Ch3	Cooling Tower Chemicals	28 minutes
GEN01A_0344_B1	BOP - Electrical Distribution	1 hr. 30 mins.
GEN01A_0344_B1_Ch1	Overview	12 minutes
GEN01A_0344_B1_Ch2	High Voltage 13.8kV and Above	9 minutes
GEN01A_0344_B1_Ch3	4160V Electrical System	12 minutes
GEN01A_0344_B1_Ch4	4160V Breaker	27 minutes
GEN01A_0344_B1_Ch5	480V Electrical System	18 minutes
GEN01A_0344_B1_Ch6	DC and UPS Systems	12 minutes
GEN01A_0346_B1	BOP - Zero Liquid Discharge	45 Minutes
GEN01A_0346_B1_Ch1	Overview	9 minutes
GEN01A_0346_B1_Ch2	Brine Concentrator	15 minutes
GEN01A_0346_B1_Ch3	Crystalizer	12 minutes
GEN01A_0346_B1_Ch4	Filter Press	9 minutes
GEN01A_0347_B1	BOP - Gas Compressors	1 hr. 8 mins.
GEN01A_0347_B1_Ch1	Overview	7 minutes
GEN01A_0347_B1_Ch2	Fuel Gas Inlet	9 minutes
GEN01A_0347_B1_Ch3	Compressors	15 minutes
GEN01A_0347_B1_Ch4	Lube Oil System	15 minutes
GEN01A_0347_B1_Ch5	Discharge	10 minutes
GEN01A_0347_B1_Ch6	CT Gas Conditioning Skid	12 minutes

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
GEN01A_0361_B1	BOP - Filtered Water	33 Minutes
	Filtered Water System and Process Flows	
GEN01A_0361_B1_Ch1	Overview	6 minutes
GEN01A_0361_B1_Ch2	Clarifier Overview	12 minutes
GEN01A_0361_B1_Ch3	Sand Filter Overview	15 minutes

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
Plant 4 - 4 on 1, GE LM6000 Gas Turbine, Vogt 2-Drum HRSG, MHI Steam Turbine, Water Cooled Condenser, Cooling Towers		8 hrs. 54 mins.
GEN01A_0401_B1	Plant 4 Site Overview	1 hr. 13 mins.
GEN01A_0401_B1_Ch1	Site Overview	8 minutes
GEN01A_0401_B1_Ch2	LM6000 Turbine Overview	15 minutes
GEN01A_0401_B1_Ch3	HRSG Overview	12 minutes
GEN01A_0401_B1_Ch4	Steam Turbine Overview	10 minutes
GEN01A_0401_B1_Ch5	Condensate System Overview	9 minutes
GEN01A_0401_B1_Ch6	Circulating Water System Overview	9 minutes
GEN01A_0401_B1_Ch7	Electrical Distribution Overview	10 minutes
GEN01A_0411_B1	GE LM6000 Gas Turbine	2 hrs. 59 mins.
GEN01A_0411_B1_Ch1	Overview	15 minutes
GEN01A_0411_B1_Ch2	Inlet Air	12 minutes
GEN01A_0411_B1_Ch3	Compressor	17 minutes
GEN01A_0411_B1_Ch4	Gas Supply	17 minutes
GEN01A_0411_B1_Ch5	Turbine	15 minutes
GEN01A_0411_B1_Ch6	Lube Oil	18 minutes
GEN01A_0411_B1_Ch7	Hydraulic System	21 minutes
GEN01A_0411_B1_Ch8	Start System	30 minutes
GEN01A_0411_B1_Ch9	Firing	21 minutes
GEN01A_0411_B1_Ch10	Generator Overview	13 minutes
GEN01A_0421_B1	Vogt 2-Drum HRSG	1 hr. 40 mins.
	System & Process Flows	
GEN01A_0421_B1_Ch1	HRSG Overview	12 minutes
GEN01A_0421_B1_Ch2	IP System Overview	15 minutes
GEN01A_0421_B1_Ch3	HP System Overview	31 minutes
GEN01A_0421_B1_Ch4	Emission & SCR System Overview	15 minutes
GEN01A_0421_B1_Ch5	Blowdown System Overview	12 minutes
GEN01A_0421_B1_Ch6	Duct Burner System Overview	15 minutes
GEN01A_0431_B1	MHI Steam Turbine	47 Minutes
GEN01A_0431_B1_Ch1	Steam Turbine Overview	10 minutes
GEN01A_0431_B1_Ch2	Steam Turbine High Pressure Section	13 minutes
GEN01A_0431_B1_Ch3	Steam Turbine IP-LP Pressure Section	12 minutes
GEN01A_0431_B1_Ch4	Steam Turbine Lube Oil System	12 minutes

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
GEN01A_0440	Plant 4 - Balance of Plant	2 hrs. 15 min.
GEN01A_0441_B1	BOP - Condensate	9 Minutes
GEN01A_0441_B1_Ch1	Condensate Overview	9 minutes
GEN01A_0442_B1	BOP - Circulating Water	48 Minutes
GEN01A_0442_B1_Ch1	Overview	12 minutes
GEN01A_0442_B1_Ch2	Cooling Tower	12 minutes
GEN01A_0442_B1_Ch3	Cooling Tower Chemicals	24 minutes
GEN01A_0444_B1	BOP - Electrical Distribution	1 hr. 18 mins.
GEN01A_0444_B1_Ch1	Electrical Distribution Overview	10 minutes
GEN01A_0444_B1_Ch2	4160V & Generator Voltage Distribution	15 minutes
GEN01A_0444_B1_Ch3	4160V Breaker Overview	26 minutes
GEN01A_0444_B1_Ch4	480V Electrical Distribution	15 minutes
GEN01A_0444_B1_Ch5	DC Distribution and UPS	12 minutes

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
Plant 5 - GE 7EA Gas Turbine Simple Cycle Single Unit		8 hrs. 11 mins.
GEN01A_0511_B1	7EA Systems and Process Flows	2 hrs. 6 mins.
GEN01A_0511_B1_Ch1	Inlet Air	6 minutes
GEN01A_0511_B1_Ch2	Compressor	12 minutes
GEN01A_0511_B1_Ch3	Combustion and Turbine	13 minutes
GEN01A_0511_B1_Ch4	Fuel Path Firing Modes	27 minutes
GEN01A_0511_B1_Ch5	Lube Oil Supply and Distribution	12 minutes
GEN01A_0511_B1_Ch6	EHC Supply and Distribution	22 minutes
GEN01A_0511_B1_Ch7	Compressor Bleed System	9 minutes
GEN01A_0511_B1_Ch8	Starting System	21 minutes
GEN01A_0511_B1_Ch9	Generator Overview	4 minutes
GEN01A_0511_B2	7EA Screen Control Familiarization	4 hrs. 5 mins.
	7EA Mark V Control Screen Familiarization	
GEN01A_0511_B2	7EA Control Screen Familiarization	5 minutes
GEN01A_0511_B2_CH2	7EA Mark V Control Group Familiarization	60 minutes
GEN01A_0511_B2_Ch3	7EA Mark V Monitor Group Familiarization	60 minutes
GEN01A_0511_B2_Ch4	7EA Mark V Auxiliary Group Familiarization	60 minutes
GEN01A_0511_B2_Ch5	7EA Mark V Tests Group Familiarization	60 minutes
GEN01A_0590_B3	7EA Combustion Turbine	2 Hours
	Startup and Operation	
GEN01A_0590_B3_Ch1	Startup	60 minutes
GEN01A_0590_B3_Ch2	Shutdown	60 minutes

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
Plant 6 - LM6000 Simple Cycle		8 hrs. 13 mins.
GEN01A_0601_B1	Plant 6 Site Overview	30 Minutes
GEN01A_0601_B1_Ch1	Plant 6 Site Overview	30 minutes
GEN01A_0611_B1	LM6000 Systems and Process Flows	2 hrs. 58 mins.
	Systems & Process Flows	
GEN01A_0611_B1_Ch1	Overview	15 minutes
GEN01A_0611_B1_Ch2	Inlet Air	12 minutes
GEN01A_0611_B1_Ch3	Compressor	17 minutes
GEN01A_0611_B1_Ch4	Gas Supply	17 minutes
GEN01A_0611_B1_Ch5	Turbine	15 minutes
GEN01A_0611_B1_Ch6	Lube Oil	18 minutes
GEN01A_0611_B1_Ch7	Hydraulic System	21 minutes
GEN01A_0611_B1_Ch8	Start System	29 minutes
GEN01A_0611_B1_Ch9	Firing	21 minutes
GEN01A_0611_B1_Ch10	Generator Overview	13 minutes
GEN01A_0611_B2	LM6000 Simple Cycle Startup	4 hrs. 5 mins.
GEN01A_0611_B2_Ch1	Introduction to LM6000 Screens	5 minutes
GEN01A_0611_B2_Ch2	LM6000 Control Group Familiarization	1 hour
GEN01A_0611_B2_Ch3	LM6000 Auxiliary Group Familiarization	1 hour
GEN01A_0611_B2_Ch4	LM6000 Generator Group Familiarization	1 hour
GEN01A_0611_B2_Ch5	LM6000 Monitor Group Familiarization	1 hour
GEN01A_0690_B3	LM6000 Control Screen Navigation and Function	40 Minutes
GEN01A_0611_B3_Ch1	Startup	40 minutes

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
Plant 7 - Siemens SGT800 Gas Turbine, 2 Drum HRSG, MHI Steam Turbine, Water Cooled Condenser, Cooling Towers		7 hrs. 54 mins.
GEN01A_0701_B1	Plant 7 Site Overview	1 hr. 3 mins.
GEN01A_0701_B1_Ch1	Plant 7 Site Overview	In Progress
GEN01A_0701_B1_Ch2	SGT800 Gas Turbine Overview	13 minutes
GEN01A_0701_B1_Ch3	HRSG Overview	12 minutes
GEN01A_0701_B1_Ch4	Steam Turbine Overview	10 minutes
GEN01A_0701_B1_Ch5	Condensate Overview	9 minutes
GEN01A_0701_B1_Ch6	Circulating Water	9 minutes
GEN01A_0701_B1_Ch7	Electrical Distribution Overview	10 minutes
GEN01A_0711_B1	SGT800 Gas Turbine Systems & Process Flows	2 hrs. 9 mins.
	Systems & Process Flows	
GEN01A_0711_B1_Ch1	Overview	13 minutes
GEN01A_0711_B1_Ch2	Air Inlet System	15 minutes
GEN01A_0711_B1_Ch3	Compressor Section	24 minutes
GEN01A_0711_B1_Ch4	Combustion Section	15 minutes
GEN01A_0711_B1_Ch5	Turbine Section	9 minutes
GEN01A_0711_B1_Ch6	Lube Oil System	15 minutes
GEN01A_0711_B1_Ch7	Turbine Start System	17 minutes
GEN01A_0711_B1_Ch8	Turbine Firing	12 minutes
GEN01A_0711_B1_Ch9	Generator	9 minutes
GEN01A_0721_B1	2 Drum HRSG	1 hr. 40 mins.
	Systems & Process Flows	
GEN01A_0721_B1_Ch1	HRSG Overview	12 minutes
GEN01A_0721_B1_Ch2	IP System	15 minutes
GEN01A_0721_B1_Ch3	HP System	31 minutes
GEN01A_0721_B1_Ch4	Emission and SCR	15 minutes
GEN01A_0721_B1_Ch5	HRSG Blowdown System	12 minutes
GEN01A_0721_B1_Ch6	HRSG Duct Burners	15 minutes
GEN01A_0731_B1	MHI Steam Turbine	47 Minutes
GEN01A_0731_B1_Ch1	MHI ST Overview	10 minutes
GEN01A_0731_B1_Ch2	HP Section	13 minutes
GEN01A_0731_B1_Ch3	IP-LP Section	12 minutes
GEN01A_0731_B1_Ch4	Lube Oil System	12 minutes

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
GEN01A_0740	Plant 7 - Balance of Plant	2 hrs. 15 mins.
GEN01A_0741_B1	BOP - Condensate	
GEN01A_0741_B1_Ch1	Condensate Overview	In Progress
GEN01A_0742_B1	BOP - Circulating Water	48 Minutes
GEN01A_0742_B1_Ch1	System Overview	12 minutes
GEN01A_0742_B1_Ch2	Cooling Tower	12 minutes
GEN01A_0742_B1_Ch3	Cooling Water Chemicals	24 minutes
GEN01A_0744_B1	BOP - Electrical Distribution	1 hr. 18 mins.
GEN01A_0744_B1_Ch1	Electrical Distribution Overview	10 minutes
GEN01A_0744_B1_Ch2	4160V and GSU's	15 minutes
GEN01A_0744_B1_Ch3	4160V Feeder	26 minutes
GEN01A_0744_B1_Ch4	480V Electrical System	15 minutes
GEN01A_0744_B1_Ch5	DC and UPS Electrical System	12 minutes

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
Plant 8 - Siemens V84.2 Simple Cycle Gas Turbine with a Dual Stack Setup for possible Combined Cycle Operation and SCR (NOx catalytic reaction)		3 hrs. 27 mins.
GEN01A_0811_B1	V84.2 Gas Turbine Systems & Process Flows	
GEN01A_0811_B1_Ch1	Turbine Overview	15 minutes
GEN01A_0811_B1_Ch2	Turbine Inlet Air System	12 minutes
GEN01A_0811_B1_Ch3	Compressor	14 minutes
GEN01A_0811_B1_Ch4	Turbine Overview	24 minutes
GEN01A_0811_B1_Ch5	Turbine Lube Oil System	21 minutes
GEN01A_0811_B1_Ch6	Turbine Hydraulics System	27 minutes
GEN01A_0811_B1_Ch7	Turbine Blowoff System	12 minutes
GEN01A_0811_B1_Ch8	Glycol Cooling Water System	9 minutes
GEN01A_0811_B1_Ch9	Fuel Gas System	25 minutes
GEN01A_0811_B1_Ch10	Water Injection System	14 minutes
GEN01A_0811_B1_Ch11	Firing	29 minutes
GEN01A_0811_B1_Ch12	Generator Overview	5 minutes

Course #	Course Title	Duration
Plant 9 - GE LMS100 Gas Turbine Simple Cycle Single Unit		3 hrs. 47 mins.
GEN01A_0911_B1	GE LMS100 Gas Turbine Systems and Process Flows	
GEN01A_0911_B1_Ch1	Overview	20 minutes
GEN01A_0911_B1_Ch2	Inlet Air System	11 minutes
GEN01A_0911_B1_Ch3	LP Compressor	12 minutes
GEN01A_0911_B1_Ch4	Intercooler	14 minutes
GEN01A_0911_B1_Ch5	HP Compressor	14 minutes
GEN01A_0911_B1_Ch6	Fuel Gas System	15 minutes
GEN01A_0911_B1_Ch7	Turbine Sections	14 minutes
GEN01A_0911_B1_Ch8	Accessory Drive System	7 minutes
GEN01A_0911_B1_Ch9	Synthetic Lube Oil System	17 minutes
GEN01A_0911_B1_Ch10	Mineral Lube Oil System	9 minutes
GEN01A_0911_B1_Ch11	Hydraulic Oil System	30 minutes
GEN01A_0911_B1_Ch12	Hydraulic Start System	29 minutes
GEN01A_0911_B1_Ch13	Firing	22 minutes
GEN01A_0911_B1_Ch14	Generator Overview	13 minutes

Course #	Course Title	Duration
Plant 10 - Toshiba TCDF 241MW Steam Turbine		3 hrs. 14 mins.
GEN01A_1031_B1	Toshiba TCDF 241MW Steam Turbine Systems and Process Controls	
GEN01A_1031_B1_Ch1	Overview	9 minutes
GEN01A_1031_B1_Ch2	HP Turbine Section	18 minutes
GEN01A_1031_B1_Ch3	IP Turbine Section	8 minutes
GEN01A_1031_B1_Ch4	LP Turbine Section	9 minutes
GEN01A_1031_B1_Ch5	Lube Oil System	18 minutes
GEN01A_1031_B1_Ch6	EHC System	24 minutes
GEN01A_1031_B1_Ch7	Seal Steam System	21 minutes
GEN01A_1031_B1_Ch8	Generator Overview	9 minutes
GEN01A_1031_B1_Ch9	Hydrogen System	16 minutes
GEN01A_1031_B1_Ch10	Seal Oil System	21 minutes
GEN01A_1031_B1_Ch11	Hydrogen Purge	12 minutes
GEN01A_1031_B1_Ch12	Hydrogen Fill	29 minutes

Course #	Course Title	Duration
Plant 11 - Seal Oil System on a 1992 Westinghouse 248MW Steam Turbine		35 Minutes
GEN01A_1131_B1_Ch1	Overview	8 minutes
GEN01A_1131_B1_Ch2	Hydrogen Side Operation	12 minutes
GEN01A_1131_B1_Ch3	Air Side Operation	15 minutes

Course #	Course Title	Duration
Plant 12 - GE LM2500 Gas Turbine Simple Cycle Single Unit		3 hrs. 2 mins.
GEN01A_1211_B1	LM2500 Systems & Processes Control	
	Systems & Process Flows	
GEN01A_1211_B1_Ch1	Overview	19 minutes
GEN01A_1211_B1_Ch2	Inlet Air System	9 minutes
GEN01A_1211_B1_Ch3	Accessory Drive	10 minutes
GEN01A_1211_B1_Ch4	Compressor Section	15 minutes
GEN01A_1211_B1_Ch5	Fuel Gas System	18 minutes
GEN01A_1211_B1_Ch6	Turbine Section	7 minutes
GEN01A_1211_B1_Ch7	Lube Oil System	21 minutes
GEN01A_1211_B1_Ch8	Hydraulic Oil System	23 minutes
GEN01A_1211_B1_Ch9	Hydraulic Start System	30 minutes
GEN01A_1211_B1_Ch10	Firing	15 minutes
GEN01A_1211_B1_Ch11	Generator Overview	15 minutes

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
Plant 13 - 2 on 1, GE 7FA Gas Turbine, 3-Drum Nooter-Eriksen HRSG, D-11 Steam Turbine, Air Cooled Condenser		17 hrs. 51 mins.
GEN01A_1301_B1	Combined Cycle Site Overview – System Description & Process Flow	1 hr. 1 min.
	Systems & Flowpath Overview for GT, HRSG, ST, Air Cooled Condenser, Condensate, Power Distribution	
GEN01A_1301_B1_Ch1	Site Overview	8 minutes
GEN01A_1301_B1_Ch2	7FA Combustion Turbine Overview	9 minutes
GEN01A_1301_B1_Ch3	7FA Generator Overview	12 minutes
GEN01A_1301_B1_Ch4	NE 3-Drum HRSG Overview	12 minutes
GEN01A_1301_B1_Ch5	D-11 Steam Turbine Overview	12 minutes
GEN01A_1301_B1_Ch6	Air Cooled Condenser Overview	8 minutes
GEN01A_1311_B1	7FA System Descriptions and Process Flows	2 hrs. 48 mins.
	Systems & Process Flows for 7FA GT with Mark VI Controls	
GEN01A_1311_B1_Ch0	Overview	9 minutes
GEN01A_1311_B1_Ch1	Inlet Air	8 minutes
GEN01A_1311_B1_Ch2	Compressor Section	12 minutes
GEN01A_1311_B1_Ch3	Combustors and Turbine Section	15 minutes
GEN01A_1311_B1_Ch4	Fuel Gas System	22 minutes
GEN01A_1311_B1_Ch5	Lube Oil Supply Distribution	17 minutes
GEN01A_1311_B1_Ch6	EHC Supply and Distribution	26 minutes
GEN01A_1311_B1_Ch7	Compressor Bleed System	10 minutes
GEN01A_1311_B1_Ch8	Generator Overview	12 minutes
GEN01A_1311_B1_Ch9	Turbine Start	37 minutes
GEN01A_1311_B2	7FA System Descriptions and Process Flows	4 hrs. 5 mins.
	Control Screen Familiarization for Mark VI Control Screens	
GEN01A_1311_B2_Ch1	Introduction to 7FA Screen Familiarization	5 minutes
GEN01A_1311_B2_Ch2	7FA Mark VI Control Screen Familiarization	1 hour
GEN01A_1311_B2_Ch3	7FA Mark VI Auxiliary Screen Familiarization	1 hour
GEN01A_1311_B2_Ch4	7FA Mark VI Monitor Screen Familiarization	1 hour
GEN01A_1311_B2_Ch5	7FA Mark VI Test Screen Familiarization	1 hour

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
GEN01A_1312_B1	7FA Hydrogen Cooled Generator	3 hrs. 50 mins.
GEN01A_1312_B1_Ch1	Generator Overview	12 minutes
GEN01A_1312_B1_Ch2	Generator Fault Protection	33 minutes
GEN01A_1312_B1_Ch3	Generator Seal Oil System	20 minutes
GEN01A_1312_B1_Ch4	Generator Hydrogen System	18 minutes
GEN01A_1312_B1_Ch5	Stator Design	25 minutes
GEN01A_1312_B1_Ch6	Rotor Design	22 minutes
GEN01A_1312_B1_Ch7	Power Generation	29 minutes
GEN01A_1312_B1_Ch8	Reactive Power	23 minutes
GEN01A_1312_B1_Ch9	LCI Overview	32 minutes
GEN01A_1312_B1_Ch10	LCI Operation	16 minutes
GEN01A_1321_B1	3-Drum HRSG System Descriptions and Process Flows	1 hr. 56 mins.
	Systems and Process Flows for 3-Drum NE HRSG with Duct Burners, Ammonia Injection, Superheat & Reheat bypass to Condenser	
GEN01A_1321_B1_Ch1	Overview	12 minutes
GEN01A_1321_B1_Ch2	LP System Overview	40 minutes
GEN01A_1321_B1_Ch3	IP System Overview	13 minutes
GEN01A_1321_B1_Ch4	HP System Overview	15 minutes
GEN01A_1321_B1_Ch5	Emmissions and SCR System	9 minutes
GEN01A_1321_B1_Ch6	Blowdown System Overview	15 minutes
GEN01A_1321_B1_Ch7	Duct Burners Overview	12 minutes
GEN01A_1331_B1	D-11 Steam Turbine System Description & Process Flows	1 hr. 34 mins.
	Systems and Process Flows for D-11 ST with Combined Stop and Control Valves for Main Steam and Reheat	
GEN01A_1331_B1_Ch1	Overview	12 minutes
GEN01A_1331_B1_Ch2	High Pressure Steam	20 minutes
GEN01A_1331_B1_Ch3	Reheat Steam	10 minutes
GEN01A_1331_B1_Ch4	Low Pressure Steam	10 minutes
GEN01A_1331_B1_Ch5	Lube Oil System	18 minutes
GEN01A_1331_B1_Ch8	Steam Turbine Starting	24 minutes

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
GEN01A_1340	Plant 13 - Balance of Plant	2 hrs. 37 mins.
GEN01A_1341_B1	BOP - Condensate System	1 hr. 19 mins.
	Air Cooled Condenser	
GEN01A_1341_B1_Ch1	Overview	8 minutes
GEN01A_1341_B1_Ch2	Steam Flow and Design	18 minutes
GEN01A_1341_B1_Ch3	Condensate System	15 minutes
GEN01A_1341_B1_Ch4	Air Removal system	15 minutes
GEN01A_1341_B1_Ch5	Operation Modes	23 minutes
GEN01A_1344_B1	BOP - Electrical Distribution	1 hr. 18 mins.
GEN01A_1344_B1_Ch1	Plant Electrical Distribution	10 minutes
GEN01A_1344_B1_Ch2	High Voltage 13.8kV	8 minutes
GEN01A_1344_B1_Ch3	4160V Electrical System	9 minutes
GEN01A_1344_B1_Ch4	4160V Feeder	27 minutes
GEN01A_1344_B1_Ch5	480V Electrical System	15 minutes
GEN01A_1344_B1_Ch6	DC and UPS Systems	9 minutes

Course Catalog: GT & CC Plants (continued)

Course #	Course Title	Duration
GEN01A_1390	Plant 13 - Cold Start-Up	8 hrs. 17 min.
GEN01A_1390_B3	Cold Start-Up	
GEN01A_1390_B3_Ch0	Start Familiarization	2 minutes
GEN01A_1390_B3_Ch1	CT Prestarts	40 minutes
GEN01A_1390_B3_Ch2	ST Prestarts	30 minutes
GEN01A_1390_B3_Ch3	DCS Prestarts	45 minutes
GEN01A_1390_B3_Ch4	FG and Aux Boiler	40 minutes
GEN01A_1390_B3_Ch5	Condenser Vacuum	40 minutes
GEN01A_1390_B3_Ch6	Lead CT Start	40 minutes
GEN01A_1390_B3_Ch7	ST Preparations	40 minutes
GEN01A_1390_B3_Ch8	ST Roll and Sync	40 minutes
GEN01A_1390_B3_Ch9	Loading the ST and Lag CT Start	60 minutes
GEN01A_1390_B3_Ch10	Blending and Loading	60 minutes
GEN01A_1390_B3_Ch11	Duct Burners	60 minutes

Course #	Course Title	Duration
Plant 14 - 1 on 1, GE 7FA Gas Turbine, 3-Drum Nooter-Eriksen HRSG, GE A10 Steam Turbine, Cooling Towers		18 hrs. 24 mins.
GEN01A_1401_B1	Combined Cycle Site Overview – System Description & Process Flow	1 hr. 6 mins
	Systems and Flowpath Overview for GT, HRSG, ST, Condensate, Power Distribution, Cooling Towers	
GEN01A_1401_B1_Ch1	Facility Overview	24 minutes
GEN01A_1401_B1_Ch2	7FA Gas Turbine Overview	8 minutes
GEN01A_1401_B1_Ch3	HRSG Overview	10 minutes
GEN01A_1401_B1_Ch4	A10 Steam Turbine Overview	12 minutes
GEN01A_1401_B1_Ch5	Condensate System	12 minutes
GEN01A_1411_B1	7FA System Descriptions and Process Flows	2 hrs. 38 mins.
	Sytems & Process Flows for 7FA GT with Mark VI Controls	
GEN01A_1411_B1_Ch0	7FA Gas Turbine Overview	9 minutes
GEN01A_1411_B1_Ch1	Inlet Air	7 minutes
GEN01A_1411_B1_Ch2	Compressor Section	12 minutes
GEN01A_1411_B1_Ch3	Combustors and Turbine Section	17 minutes
GEN01A_1411_B1_Ch4	Fuel Gas System	22 minutes
GEN01A_1411_B1_Ch5	Lube Oil Supply Distribution	16 minutes
GEN01A_1411_B1_Ch6	EHC Supply and Distribution	26 minutes
GEN01A_1411_B1_Ch7	Compressor Bleed System	9 minutes
GEN01A_1411_B1_Ch8	Generator Overview	12 minutes
GEN01A_1411_B1_Ch9	Turbine Start	28 minutes
GEN01A_1411_B2	Control Screen Description and Navigation	4 hrs. 5 mins.
	Sytems & Process Flows for 7FA GT with Mark VI Controls	
GEN01A_1411_B2	7FA Control Screen Familiarization	5 minutes
GEN01A_1411_B2	7FA Mark VI Control Group Screens	1 hour
GEN01A_1411_B2	7FA Mark VI Auxiliary Group Screens	1 hour
GEN01A_1411_B2	7FA Mark VI Monitor Group Screens	1 hour
GEN01A_1411_B2	7FA Mark VI Tests Group Screens	1 hour

Course #	Course Title	Duration
GEN01A_1412_B1	7FA Hydrogen Cooled Generator	3 hrs. 50 mins.
GEN01A_1412_B1_Ch1	Generator Overview	12 minutes
GEN01A_1412_B1_Ch2	Generator Fault Protection	33 minutes
GEN01A_1412_B1_Ch3	Generator Seal Oil System	20 minutes
GEN01A_1412_B1_Ch4	Generator Hydrogen System	18 minutes
GEN01A_1412_B1_Ch5	Stator Design	25 minutes
GEN01A_1412_B1_Ch6	Rotor Design	22 minutes
GEN01A_1412_B1_Ch7	Power Generation	29 minutes
GEN01A_1412_B1_Ch8	Reactive Power	23 minutes
GEN01A_1412_B1_Ch9	LCI Overview	32 minutes
GEN01A_1412_B1_Ch10	LCI Operation	16 minutes
GEN01A_1421_B1	3-Drum HRSG System Descriptions and Process Flows	1 hr. 56 min.
	Systems and Process Flows for 3-Drum NE HRSG with Duct Burners, Ammonia Injection, Superheat and Reheat bypass to Condenser	
GEN01A_1421_B1_Ch1	HRSG Overview	12 minutes
GEN01A_1421_B1_Ch2	LP Circuit	40 minutes
GEN01A_1421_B1_Ch3	IP Circuit	13 minutes
GEN01A_1421_B1_Ch4	HP Circuit	15 minutes
GEN01A_1421_B1_Ch5	Emissions Reduction System	9 minutes
GEN01A_1421_B1_Ch6	HRSG Blowdown System	15 minutes
GEN01A_1421_B1_Ch7	Duct Burner System	12 minutes
GEN01A_1431_B1	A10 ST System Description and Process Flows	2 hrs. 12 mins.
	Systems and Process Flows for A10 ST with Combined Stop and Control Valves for Main Steam and Reheat	
GEN01A_1431_B1_Ch1	Overview	12 minutes
GEN01A_1431_B1_Ch2	High Pressure Section	12 minutes
GEN01A_1431_B1_Ch3	IP-LP Pressure Section	12 minutes
GEN01A_1431_B1_Ch4	Lube Oil System	16 minutes
GEN01A_1431_B1_Ch5	EHC System	26 minutes
GEN01A_1431_B1_Ch6	Steam Seal System	17 minutes
GEN01A_1431_B1_Ch7	Generator Overview	14 minutes
GEN01A_1431_B1_Ch8	Steam Turbine Start	23 minutes

Course #	Course Title	Duration
GEN01A_1440	Plant 14 - Balance of Plant	2 hrs. 37 mins.
GEN01A_1441_B1	BOP - Condensate System	43 Minutes
	Description of Condensate System Process Flows & Components	
GEN01A_1441_B1_Ch1	Condensate Overview	12 minutes
GEN01A_1441_B1_Ch2	Condensate System	10 minutes
GEN01A_1441_B1_Ch3	Air Ejector and Gland Steam Condensers	21 minutes
GEN01A_1442_B1	BOP - Circulating Water	39 Minutes
	Circulating Water System and Process Flows	
GEN01A_1442_B1_Ch1	Overview	6 minutes
GEN01A_1442_B1_Ch2	Cooling Tower Design	9 minutes
GEN01A_1442_B1_Ch3	Chemical Feed	24 minutes
GEN01A_1444_B1	BOP - Electrical Distribution	1 hr. 15 mins.
GEN01A_1444_B1_Ch1	Overview	10 minutes
GEN01A_1444_B1_Ch2	High Voltage 18kV and Above	8 minutes
GEN01A_1444_B1_Ch3	4160V and 480V Systems	17 minutes
GEN01A_1444_B1_Ch4	4160V Feeder Operation	29 minutes
GEN01A_1444_B1_Ch5	DC and UPS Systems	11 minutes

Course #	Course Title	Duration
Legacy Boiler Fundamentals Overview		10 hrs. 33 mins.
CBF00A_0101	Legacy Boiler Fundamentals	7 Minutes
CBF00A_0101_B1_Ch1	Overview	7 minutes
CBF00A_0301	Boiler Fundamentals	2 hrs. 46 mins.
CBF00A_0301_B1_Ch1	Overview	21 minutes
CBF00A_0301_B1_Ch2	Feedwater and Steam Flow	27 minutes
CBF00A_0301_B1_Ch3	Water Properties	33 minutes
CBF00A_0301_B1_Ch4	Fuel	19 minutes
CBF00A_0301_B1_Ch5	Primary and Secondary Air	13 minutes
CBF00A_0301_B1_Ch6	Burners	29 minutes
CBF00A_0301_B1_Ch7	Combustion	14 minutes
CBF00A_0301_B1_Ch8	Gas-Fired Boiler	10 minutes
CBF00A_0401	Flue Gas Fundamentals	1 hr. 7 mins.
CBF00A_0401_B1_Ch1	Overview	7 minutes
CBF00A_0401_B1_Ch2	Electrostatic Precipitators	16 minutes
CBF00A_0401_B1_Ch3	Baghouses	15 minutes
CBF00A_0401_B1_Ch4	Flue Gas Desulfurization	17 minutes
CBF00A_0401_B1_Ch5	Mercury Removal	12 minutes
CBF00A_0501	Steam Turbine Fundamentals	1 hr. 57 mins.
CBF00A_0501_B1_Ch1	Overview	10 minutes
CBF00A_0501_B1_Ch2	Design	28 minutes
CBF00A_0501_B1_Ch3	Auxiliary Systems	30 minutes
CBF00A_0501_B1_Ch4	Condenser	20 minutes
CBF00A_0501_B1_Ch5	Operation/Expansion	29 minutes
CBF00A_0601	Generator Fundamentals	1 hr. 50 mins.
CBF00A_0601_B1_Ch1	Overview	8 minutes
CBF00A_0601_B1_Ch2	Design	14 minutes
CBF00A_0601_B1_Ch3	Auxiliaries	21 minutes
CBF00A_0601_B1_Ch4	Energizing	15 minutes
CBF00A_0601_B1_Ch5	MW and MVAR	14 minutes
CBF00A_0601_B1_Ch6	Load Control	12 minutes
CBF00A_0601_B1_Ch7	Fault Protection	26 minutes

Course Catalog: Legacy Boiler Fundamentals (continued)

Course #	Course Title	Duration
CBF00A_0701	Plant Operation Fundamentals	2 hrs. 53 mins.
CBF00A_0701_B1_Ch1	Overview	14 minutes
CBF00A_0701_B1_Ch2	Water Treatment	16 minutes
CBF00A_0701_B1_Ch3	Condensate/Feedwater	18 minutes
CBF00A_0701_B1_Ch4	Cooling Towers	24 minutes
CBF00A_0701_B1_Ch5	Heat Rate	19 minutes
CBF00A_0701_B1_Ch6	Boiler Efficiency	19 minutes
CBF00A_0701_B1_Ch7	Boiler Control	9 minutes
CBF00A_0701_B1_Ch8	CEMS	31 minutes
CBF00A_0701_B1_Ch9	Ash	21 minutes
CBF00A_0701_B1_Ch10	Electrical	18 minutes



Course Catalog: Coal Fired Plants

Course #	Course Title	Duration
Coal Plant 1 - Two Supercritical B&W Boiler Units, Two GE Cross-Compound 750MW Steam Turbines, Baghouse, FGD System, Lime Slaking		24 hrs. 25 mins.
GEN02A_0101_B1	Plant Overview	9 Minutes
GEN02A_0101_B1_Ch1	Plant Overview	9 minutes
GEN02A_0110_B1	Pulverizer	28 Minutes
GEN02A_0110_B1_Ch1	Pulverizer Overview	In Progress
GEN02A_0110_B1_Ch2	Pulverizer Feed	6 minutes
GEN02A_0110_B1_Ch3	Pulverizer Operation	22 minutes
GEN02A_0111_B1	Hydrogen Cooled Generator	1 hr. 50 mins.
GEN02A_0111_B1_Ch1	Overview	15 minutes
GEN02A_0111_B1_Ch2	Stator	24 minutes
GEN02A_0111_B1_Ch3	Rotor	24 minutes
GEN02A_0111_B1_Ch4	Power Generation	26 minutes
GEN02A_0111_B1_Ch5	Reactive Power	21 minutes
GEN02A_0112_B1	Lube Oil	55 Minutes
GEN02A_0112_B1_Ch1	Lube Oil System Overview	13 minutes
GEN02A_0112_B1_Ch2	Component Operations	30 minutes
GEN02A_0112_B1_Ch3	Cooler Transfer	12 minutes
GEN02A_0113_B1	Steam Turbine Expansion	40 Minutes
GEN02A_0113_B1_Ch1	Overview	13 minutes
GEN02A_0113_B1_Ch2	Expansion	12 minutes
GEN02A_0113_B1_Ch3	Start Blocks to FSNL	20 minutes
GEN02A_0113_B1_Ch4	Start and Loading	10 minutes
GEN02A_0120_B1	Furnace	1 hr. 18 mins.
GEN02A_0120_B1_Ch1	Furnace Overview	9 minutes
GEN02A_0120_B1_Ch2	Primary Air System	15 minutes
GEN02A_0120_B1_Ch3	Secondary Air System	12 minutes
GEN02A_0120_B1_Ch4	Burners	24 minutes
GEN02A_0120_B1_Ch5	Combustion	18 minutes
GEN02A_0124_B1	Air Compressors	40 Minutes
GEN02A_0124_B1_Ch1	Overview	11 minutes
GEN02A_0124_B1_Ch2	Air and Oil Systems	15 minutes
GEN02A_0124_B1_Ch3	Operations	14 minutes

Course Catalog: Coal Fired Plants (continued)

Course #	Course Title	Duration
GEN02A_0130_B1	Baghouse	1 hr. 33 mins.
GEN02A_0130_B1_Ch1	Baghouse Overview	9 minutes
GEN02A_0130_B1_Ch2	Baghouse and Air Flows	27 minutes
GEN02A_0130_B1_Ch3	Cleaning and Bags	18 minutes
GEN02A_0130_B1_Ch4	Ash Removal System	12 minutes
GEN02A_0130_B1_Ch5	Opacity Event	27 minutes
GEN02A_0130_B2	Baghouse	2 hrs. 5 mins.
GEN02A_0130_B2_Ch1	Introduction	5 minutes
GEN02A_0130_B2_Ch2	Baghouse System	1 hour
GEN02A_0130_B2_Ch3	Baghouse Component	1 hour
GEN02A_0130_B3	Baghouse	1 hr. 5 mins.
GEN02A_0130_B3_Ch1	Introduction	5 minutes
GEN02A_0130_B3_Ch2	Baghouse Start	1 hour
GEN02A_0140_B1	Absorber	55 Minutes
GEN02A_0140_B1_Ch1	Absorber Overview	12 minutes
GEN02A_0140_B1_Ch2	Absorber Operation	16 minutes
GEN02A_0140_B1_Ch3	Chemical Reactions in the Absorbers	27 minutes
GEN02A_0140_B2	Absorber	1 hr. 5 mins.
GEN02A_0140_B2_Ch1	Introduction	5 minutes
GEN02A_0140_B2_Ch2	Absorbers	1 hour
GEN02A_0141_B1	Absorber	14 Minutes
GEN02A_0141_B1_Ch1	Lime Slurry System Overview	14 minutes
GEN02A_0141_B2	Lime and Absorber	4 hrs. 5 mins.
GEN02A_0141_B2_Ch1	Introduction	5 minutes
GEN02A_0141_B2_Ch2	Absorber Group Familiarization	1 hour
GEN02A_0141_B2_Ch3	Lime Slaking Group Familiarization	1 hour
GEN02A_0141_B2_Ch4	Process Liquor Group Familiarization	1 hour
GEN02A_0141_B2_Ch5	Thickener Group Familiarization	1 hour
GEN02A_0141_B3	Lime and Absorber	6 hrs. 5 mins.
GEN02A_0141_B3_Ch1	Introduction	5 minutes
GEN02A_0141_B3_Ch2	Lime Slaking System/Electrical and Slurry Transfer	1 hour
GEN02A_0141_B3_Ch3	Lime Slaking System/Grit Strainer	1 hour
GEN02A_0141_B3_Ch4	Lime Slaking System/Grit Conveyor and Scrubbers	1 hour
GEN02A_0141_B3_Ch5	Lime Slaking System/Classifier	1 hour
GEN02A_0141_B3_Ch6	Lime Slaking System/Slaker	1 hour
GEN02A_0141_B3_Ch7	Lime Slaking System/Feeders and Conveyors	1 hour

Course Catalog: Coal Fired Plants (continued)

Course #	Course Title	Duration
GEN02A_0142_B1	CEMS	40 Minutes
GEN02A_0142_B1_Ch1	Overview	6 minutes
GEN02A_0142_B1_Ch2	Hardware	12 minutes
GEN02A_0142_B1_Ch3	Emissions	22 minutes
GEN02A_0144_B1	MagneBlast 4160V Breaker	39 Minutes
GEN02A_0144_B1_Ch1	Overview	10 minutes
GEN02A_0144_B1_Ch2	Circuit Breaker Operation	29 minutes

Course Catalog: Coal Fired Plants (continued)

Course #	Course Title	Duration
Coal Plant 2 - Two Subcritical C-E Boilers, Two GE Tandem-Compound 800MW Steam Turbines, Condensate and Feedwater, Mercury Removal, Circulating Water, Natural-Draft Cooling Towers		6 hrs. 15 mins.
GEN02A_0201_B1	Site Overview	18 minutes
GEN02A_0201_B1_Ch1	Site Overview	18 minutes
GEN02A_0210_B1	4-Cylinder Tandem-Compound Reheat Steam Turbine	2 hrs. 5 mins.
GEN02A_0210_B1_Ch1	Overview	21 minutes
GEN02A_0210_B1_Ch2	Gland Seal System	18 minutes
GEN02A_0210_B1_Ch3	Lube Oil System	24 minutes
GEN02A_0210_B1_Ch4	EHC System	10 minutes
GEN02A_0210_B1_Ch5	Generator Overview	10 minutes
GEN02A_0210_B1_Ch6	Seal Oil System	30 minutes
GEN02A_0210_B1_Ch7	Generator Gas System	12 minutes
GEN02A_0220_B1	Boiler	2 hrs. 49 mins.
GEN02A_0220_B1_Ch1	Overview	21 minutes
GEN02A_0220_B1_Ch2	Feedwater Flow	14 minutes
GEN02A_0220_B1_Ch3	Steam Flow	16 minutes
GEN02A_0220_B1_Ch4	Primary Air	16 minutes
GEN02A_0220_B1_Ch5	Secondary Air	21 minutes
GEN02A_0220_B1_Ch6	Burners	18 minutes
GEN02A_0220_B1_Ch7	Combustion	20 minutes
GEN02A_0220_B1_Ch8	Bottom Ash System	28 minutes
GEN02A_0220_B1_Ch9	Fly Ash Removal System	15 minutes
GEN02A_0222_B1	Condensate System	1 hr. 9 mins.
GEN02A_0222_B1_Ch1	Condensate/Feedwater Overview	7 minutes
GEN02A_0222_B1_Ch2	Condenser Water Side	17 minutes
GEN02A_0222_B1_Ch3	Condenser Steam Side	11 minutes
GEN02A_0222_B1_Ch4	Condensate System	22 minutes
GEN02A_0222_B1_Ch5	Feedwater System	12 minutes
GEN02A_0232_B1	Mercury Removal	48 Minutes
GEN02A_0232_B1_Ch1	Mercury Removal System Overview	12 minutes
GEN02A_0232_B1_Ch2	Calcium Halide Injection	18 minutes
GEN02A_0232_B1_Ch3	Activated Carbon Injection	18 minutes
GEN02A_0242_B1	Circulating Water	1 hr. 7 mins.
GEN02A_0242_B1_Ch1	Overview	10 minutes
GEN02A_0242_B1_Ch2	Circulation Pumps and System Flow	12 minutes
GEN02A_0242_B1_Ch3	Cooling Towers	22 minutes
GEN02A_0242_B1_Ch4	Cooling Tower Chemistry	23 minutes

Course Catalog: Coal Fired Plants (continued)

Course #	Course Title	Duration
GEN02A_0261_B1	Water Treatment	1 hr. 55 mins.
GEN02A_0261_B1_Ch1	Overview	17 minutes
GEN02A_0261_B1_Ch2	Activated Carbon Filter Flow	24 minutes
GEN02A_0261_B1_Ch3	Cation System	18 minutes
GEN02A_0261_B1_Ch4	Anion System	20 minutes
GEN02A_0261_B1_Ch5	Mixed Bed System	25 minutes
GEN02A_0261_B1_Ch6	Deionized Neutralization System	11 minutes

Course #	Course Title	Duration
Ammonia Plant 1 - 1,500 tons per day Ammonia Plant		6 hrs. 54 mins.
GEN03A_0101_B1	Reformer Process Overview	1 hr. 34 mins.
GEN03A_0101_B1_Ch1	Reformer Overview	15 minutes
GEN03A_0101_B1_Ch2	Natural Gas Supply	15 minutes
GEN03A_0101_B1_Ch3	Steam Supply	9 minutes
GEN03A_0101_B1_Ch4	Combustion Air and Draft System	18 minutes
GEN03A_0101_B1_Ch5	Primary Reformer	18 minutes
GEN03A_0101_B1_Ch6	Secondary Reformer	19 minutes
GEN03A_0101_B2	Primary Reformer Control Screen Familiarization	1 hr. 45 mins
GEN03A_0101_B2_Ch1	General Equipment	20 minutes
GEN03A_0101_B2_Ch2	Natural Gas	15 minutes
GEN03A_0101_B2_Ch3	Primary Reformer	15 minutes
GEN03A_0101_B2_Ch4	Secondary Reformer	25 minutes
GEN03A_0101_B2_Ch5	Radiant Section	30 minutes
GEN03A_0101_B3	Primary Reformer Start	3 hrs. 35 mins.
GEN03A_0101_B3_Ch1	ID Fan Prestarts	20 minutes
GEN03A_0101_B3_Ch2	ID Fan Roll	20 minutes
GEN03A_0101_B3_Ch3	FD Fan Prestarts	20 minutes
GEN03A_0101_B3_Ch4	FD Fan Preparations	20 minutes
GEN03A_0101_B3_Ch5	FD Fan Roll	15 minutes
GEN03A_0101_B3_Ch6	Reformer Gas Pressure	30 minutes
GEN03A_0101_B3_Ch7	Reformer Box Purge	30 minutes
GEN03A_0101_B3_Ch8	Reformer Burner Fuel Gas Seal Test	20 minutes
GEN03A_0101_B3_Ch9	Reformer Burner Fuel Valve Setup	20 minutes
GEN03A_0101_B3_Ch10	Primary Reformer Burner Lightoff	20 minutes



Course Catalog: Water Treatment

Course #	Course Title	Duration
Makeup Water Treatment Fundamentals		6 hrs. 25 mins.
Fundamentals		1 hr. 34 mins.
GEN09A_0903_B1	RO Fundamentals	
GEN09A_0903_B1_Ch1	Reverse Osmosis	8 minutes
GEN09A_0903_B1_Ch2	Osmotic Forces	6 minutes
GEN09A_0903_B1_Ch3	Hydrostatic Head	6 minutes
GEN09A_0903_B1_Ch4	Net Driving Pressure	12 minutes
GEN09A_0903_B1_Ch5	Reversing Osmosis	12 minutes
GEN09A_0903_B1_Ch6	RO Element Construction	12 minutes
GEN09A_0903_B1_Ch7	RO Pressure Vessel Construction	9 minutes
GEN09A_0903_B1_Ch8	RO Flow Considerations	12 minutes
GEN09A_0903_B1_Ch9	Water Flowpaths	6 minutes
GEN09A_0903_B1_Ch10	System Configurations	9 minutes
GEN09A_0941_B1	RO System 1	1 hr. 28 mins.
GEN09A_0941_B1_Ch1	Raw Water Supply	6 minutes
GEN09A_0941_B1_Ch2	Ultrafilters and Filtrate Buffer Tank	3 minutes
GEN09A_0941_B1_Ch3	Buffer Tank Supply to RO	3 minutes
GEN09A_0941_B1_Ch4	Operational Cycle Flowpaths for RO	10 minutes
GEN09A_0941_B1_Ch5	Degasifier	6 minutes
GEN09A_0941_B1_Ch6	Permeate Buffer and Storage Tank	6 minutes
GEN09A_0941_B1_Ch7	Chemical Cleaning	20 minutes
GEN09A_0951_B1	IX System 1	3 hrs. 51 mins.
GEN09A_0951_B1_Ch1	Cycle Makeup IX Overview	24 minutes
GEN09A_0951_B1_Ch2	Activated Carbon Filter Service Cycle	27 minutes
GEN09A_0951_B1_Ch3	Activated Carbon Filter Regeneration	21 minutes
GEN09A_0951_B1_Ch4	Cation Vessel Service Flow	12 minutes
GEN09A_0951_B1_Ch5	Cation Exchanger Regeneration	27 minutes
GEN09A_0951_B1_Ch6	Forced Draft Degasifier	12 minutes
GEN09A_0951_B1_Ch7	Anion Vessel Service Flow	12 minutes
GEN09A_0951_B1_Ch8	Anion Exchanger Regeneration	30 minutes
GEN09A_0951_B1_Ch9	Mixed Bed Exchanger Vessel Service Flow	21 minutes
GEN09A_0951_B1_Ch10	Mixed Bed Exchanger Regeneration	45 minutes

Course Catalog: **Makeup Water Treatment** (continued)

Course #	Course Title	Duration
GEN09A_0952_B1	IX Industrial System 2	1 hr. 56 mins.
GEN09A_0952_B1_Ch1	Overview	17 minutes
GEN09A_0952_B1_Ch2	Activated Carbon Filter Flow	24 minutes
GEN09A_0952_B1_Ch3	Cation System	18 minutes
GEN09A_0952_B1_Ch4	Anion System	20 minutes
GEN09A_0952_B1_Ch5	Mixed Bed Vessels	26 minutes
GEN09A_0952_B1_Ch6	Deionized Neutralization System	11 minutes



Course #	Course Title	Duration
Maintenance - Heat Exchangers		1 hr. 34 mins.
GEN08A_010_B1	Heat Exchangers	
GEN08A_010_B1_CH1	Overview	6 minutes
GEN08A_010_B1_CH2	Plate Heat Exchangers	12 minutes
GEN08A_010_B1_CH3	Plate Heat Exchanger Instrumentation	12 minutes
GEN08A_010_B1_CH4	Main Condenser Water Side	15 minutes
GEN08A_010_B1_CH5	Main Condenser Steam Side	21 minutes
GEN08A_010_B1_CH6	Deaerator Overview	19 minutes
GEN08A_010_B1_CH7	Shell and Tube Heat Exchanger	9 minutes
GEN08A_010_B1_CH8	Heat Exchanger Instructor's Guide	PDF
Maintenance - Bearings		1 hr. 24 mins.
GEN08A_012	Bearings	
GEN08A_012_B1_Ch1	Overview	6 minutes
GEN08A_012_B1_Ch2	Elliptical Bearing	18 minutes
GEN08A_012_B1_Ch3	Tilt Pad Journal Bearing	24 minutes
GEN08A_012_B1_Ch4	Thrust Bearing	21 minutes
GEN08A_012_B1_Ch5	Bearing Instrumentation	15 minutes
GEN08A_012_B1_Ch6	Thrust Bearing Instructor's Guide	PDF
Maintenance - Laser Alignment		1 hr. 30 mins.
GEN08A_013_B1	Laser Alignment Fundamentals	
GEN08A_013_B1_Ch1	Laser Alignment Overview	6 minutes
GEN08A_013_B1_Ch2	Soft Foot and Runout	15 minutes
GEN08A_013_B1_Ch3	Angularity and Offset	9 minutes
GEN08A_013_B1_Ch4	VibraAlign Setup	15 minutes
GEN08A_013_B1_Ch5	VibraAlign Measure	15 minutes
GEN08A_013_B1_Ch6	Rotalign Setup	15 minutes
GEN08A_013_B1_Ch7	Rotalign Measure	15 minutes

Course Catalog: **Maintenance** (continued)

Course #	Course Title	Duration
Maintenance - Boiler Feed Pump		5 hr. 24 mins.
GEN08A_016_B1	Boiler Feed Pump	
GEN08A_016_B1_Ch1	Overview	20 minutes
GEN08A_016_B1_Ch2	Boiler Feed Pump Construction	22 minutes
GEN08A_016_B1_Ch3	Pump Accessories	19 minutes
GEN08A_016_B1_Ch4	Operation	19 minutes
GEN08A_016_B1_Ch5	Performance Curves	27 minutes
GEN08A_016_B1_Ch6	Troubleshooting	46 minutes
GEN08A_016_B1_Ch7	Bearing Replacement	33 minutes
GEN08A_016_B1_Ch8	Boiler Feed Pump Disassembly	60 minutes
GEN08A_016_B1_Ch9	Boiler Feed Pump Reassembly	1 hr. 18 mins.
Maintenance - Limitorque L120-85 Actuator		1 hr. 40 mins.
GEN08A_017_B1	Limitorque L120-85 Actuator	
GEN08A_017_B1_CH1	Overview	12 minutes
GEN08A_017_B1_CH2	Actuator Operation	22 minutes
GEN08A_017_B1_CH3	Limit Switch Setting	23 minutes
GEN08A_017_B1_CH4	Torque Switch Setting	9 minutes
GEN08A_017_B1_CH5	Troubleshooting	34 minutes
Maintenance - 7FA Gas Turbine Major Inspections		4 hrs. 35 mins.
GEN08A_018_B1	7FA Gas Turbine Major Inspections	
GEN01A_0214_B1_Ch1	Overview	12 minutes
GEN01A_0214_B1_Ch2	HGP Clearance Measurements	19 minutes
GEN01A_0214_B1_Ch3	HGP Turbine Casing Removal	29 minutes
GEN01A_0214_B1_Ch4	HGP Concentricity, Rotor Float, and Clearance Checks	16 minutes
GEN01A_0214_B1_Ch5	HGP Component Removal	25 minutes
GEN01A_0214_B1_Ch6	HGP Inspection	41 minutes
GEN01A_0214_B1_Ch7	HGP Turbine Section Assembly	1 hr. 25 mins.
GEN01A_0214_B1_Ch8	HGP Assembly Clearances	10 minutes
GEN01A_0214_B1_Ch9	HGP Combustion Section Assembly	25 minutes
GEN01A_0214_B1_Ch10	HGP External Equipment Assembly and Testing	13 minutes