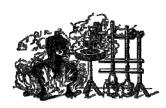
ENGINEER / FIREMAN EXAMINATION BREAKDOWN





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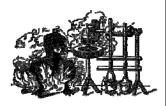
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(Hov	(How many questions will be asked in each catagory)									
	2nd Fireman	1st Fireman	3rd Engineer	2nd Engineer	1st Engineer					
General Subjects			Ü		Ü					
Compressors										
General Math	1									
Heating systems	1									
Lubricants										
Mechanics			A							
Metallurgy	h	h	4		1					
Pumps)								
Related Chemistry	1									
Steam Traps	1									
Strengths and Materials										
Thermodynamics										
Watch Duties										
Welded Repairs										
Boilers										
Air Heaters										
ASME Code										
Auxiliary Boilers										
Boiler Construction										
Boiler Operation	_	_								
Boiler Repairs		6	1	2	2					
Combustion			4	. 7						
Control Systems										
Determination of Boiler Efficience	сy									
Fuels, Proper Storage										
Heating Boilers	1									
Hoisting equipment										
Horsepower										
Main Boilers										
Safety Valves										
Superheaters, Reheaters										
Boiler Auxiliaries										
B31.1 Code										
Blowdown / Blowoff Piping										
Feedwater systems]									
Flue Gas Analysis Equipment										
Flue Gas Systems		^		│	│					
Fuel Systems										
Piping, fittings, valves										
Pumps										
Water Treatment										

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(How many questions will be asked in each catagory)								
	2nd Fireman	1st Fireman	3rd Engineer	2nd Engineer	1st Engineer			
Steam Turbines / Engines								
Auxiliary Turbines								
Horsepower								
Main Turbines			A					
Reciprocating Engines			/	` '	' · ·			
Turbine Construction			4	.)				
Turbine Maintenance			•					
Turbine Theory								
Turbine Types								
Turbine Auxiliaries								
Condenser systems								
Cooling Systems								
Governors			'	'				
Governors					3			
Lube Oil Purifiers								
Repair of Auxiliaries								
Vacuum / Air Ejection Systems								
Electrical								
Auxiliary Power			_					
General Maintenance			4					
Generator Operation / Paralleling								
Generators			•					
Motors								
Theory								
Safety								
Environmental Laws / Pollution								
Fire								
Fire Fighting								
Fire Prevention								
First Aid	~	~		1	- Z			
Flooding				•	•			
Hazardous Material								
Inspections								
Mass. Reg. 522 CMR 1 - 17								
OSHA Regulations								
Refrigeration								
Personnel / Management								