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**SPHM
HOSPITALITY**

ENGINE DEPARTMENT



Hotel Management

SPHM Hospitality

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Cruise Job Descriptions

CRUISE SHIP JOBS - CHIEF ENGINEER

Chief Engineer Job Description and Duties:

- ✓ Responsible for the entire technical operations of the vessel including engineering, electrical, and mechanical divisions
- ✓ The Chief Engineer is the head of the entire Engine Department aboard the cruise ship, the highest-ranking officer within the department and along with the Captain / Master, one of the most important figures in the Marine Operations division on the ship
- ✓ The Chief Engineer has overall responsibility for all technical operations and equipment onboard the cruise ship
- ✓ Assisted by his / her subordinate officers (Staff Chief Engineer, Chief Electrical Engineer, Chief Refrigeration Engineer, Hotel Service Engineer) he / she makes sure that systems and equipment within every sub-division of the Engine Department are operating correctly and are maintained up to the highest possible standards of the cruise line and international regulations - main and auxiliary engines, generators, electrical and electronic systems, communication systems, heating, cooling, ventilation systems, plumbing, waste management systems, the machinery in the lifeboats, rescue boats etc.
- ✓ Ensures that the Staff Chief Engineer and the other senior engine department officers are fully familiar with his/her duties and could assume his/her position at any time should that becomes necessary
- ✓ Responsible for the professional, safety and emergency drill training of subordinate officers and crew



Chief Engineer Job Requirements:

- National Certificate of Competency (Marine Engineer Officer – no limitation for other than ro-ro vessel)
- Master's degree or Polytechnical degree of technical ship's operation
- Strong leadership skills and previous cruise ship experience as a senior engine officer
- Excellent verbal and written command of the English language

Chief Engineer Salary Range:

\$9000 U.S. per month and up depending on the cruise line and time served with the company.

Cruise Job Descriptions

CRUISE SHIP JOBS - STAFF CHIEF ENGINEER

Staff Chief Engineer Job Description and Duties:

- ✓ The Staff Chief Engineer is the second in charge and second highest-ranking officer within the Engine Department of a cruise ship
- ✓ Must be fully conversant with all of the Chief Engineer's functions and be able to assume his/her duties and take charge of the ship's Engine Department at any moment
- ✓ Oversees and supervises the day-to-day operations of the entire engineering department aboard the ship and is actively participating in instructions and training of all the engine department officers and staff
- ✓ He/she would assist the Chief Engineer in all mechanical, electrical, electronic, environmental matters aboard the ship and HR issues within the Engine Department, as well as ordering parts and equipment for the department and budget proposals
- ✓ Works in close cooperation with the ship's Safety Officer in order to ensure the proper maintenance and outstanding mechanical conditions of all the safety equipment and systems aboard the cruise ship, such as fire-fighting and sprinkler systems, water-tight and fire-proof doors and all the safety equipment within the engine room



Staff Chief Engineer Job Requirements:

- Certificate of Competency: IMO III/2 (First officer or more – no limitation for other than ro-ro vessels)
- Strong managerial skills and previous ship experience as a senior engine department officer
- Master's degree or Polytechnical degree of technical ship's operation
- Excellent verbal and written command of the English language

Staff Chief Engineer Salary Range:

\$7000 - 9800 U.S. per month and up depending on the cruise line and time served with the company. Possibilities for promotion to Chief Engineer position.

Cruise Job Descriptions

CRUISE SHIP JOBS - 1ST ENGINEER

1st Engineer Job Description and Duties:

- ✓ Responsible for the daily maintenance and operations of the engineering and technical aspects of the vessel as directed by The Chief Engineer and Staff Chief Engineer
- ✓ Directly responsible for all work performed in the engine room and for the maintenance of the main and auxiliary engines of the cruise ship
- ✓ Supervises and works in close cooperation with the 2nd and 3rd engineers, engine cadet and engine ratings and is also responsible for their on-the-job training, thus ensuring safe working conditions
- ✓ Reports to the Staff Chief Engineer and the Chief Engineer of the ship
- ✓ The other duties of the First Engineer include, but are not limited to scheduling and assigning the daily work of subordinate engineers and engine ratings, keeping track of their regular and overtime working hours, ensuring that all machinery, fighting and safety equipment within the engine room is working properly and according to the company standards and international safety regulations
- ✓ Responsible for overseeing the bunkering of fuel and lubrication oil and transferring from the ship to a barge or shore based facilities of used oil, sludge and residual liquids used by the ship's engineering equipment



First Engineer Job Requirements:

- STCW-95 approved 1st Engineer unlimited Certificate of Competency
- Experience as a first engineer or a second engineer on board ships
- Degree in Mechanical or Marine Engineering from accredited maritime school or equivalent
- Excellent verbal and written command of the English language

1st Engineer Salary Range:

\$6500 - 8400 U.S. per month and up depending on the cruise line. Possibilities for promotion to Staff Chief Engineer position.

Cruise Job Descriptions

CRUISE SHIP JOBS - SECOND ENGINEER

2nd Engineer Job Description and Duties:

- ✓ Performs duties as delegated by The Chief Engineer and Staff Chief Engineer
- ✓ Acts as Engineer Watch Officer in the engine control room overseeing the operation, maintenance and repairs of subordinate engineers and engine ratings members of the cruise ship's engineering team
- ✓ Must be familiar and proficient in maintenance and repairs of the main and auxiliary engines and their belonging systems and equipment, ship's plants for fresh and sea water, boiler plant with related systems and equipment, emergency generators with their related systems, steering gear, stabizers, propeller shafts, stern tubes, bow thrusters, pneumatic valves with all belonging systems and equipment
- ✓ Reports to the 1st Engineer, Staff Chief Engineer and the Chief Engineer of the ship
- ✓ responsible for the maintenance of the ship's safety and emergency equipment - Watertight, fire and splash doors; lifeboats, life rafts and rescue boats winches; tender boats, lifeboats and rescue boats engines etc.



Second Engineer Job Requirements:

- 2nd Engineer License (CoC) without limitations (STCW-95 approved)
- Experience as a 2nd Engineer or a 3rd Engineer on board ships
- Degree in Mechanical or Marine Engineering from accredited maritime school or equivalent
- Excellent verbal and written command of the English language

2nd Engineer Salary Range:

\$5800 - 8000 U.S. per month and up depending on the cruise line. Possibilities for promotion to 1st Engineer position.

Cruise Job Descriptions

CRUISE SHIP JOBS - 3RD ENGINEER

3rd Engineer Job Description and Duties:

- ✓ Performs duties as delegated by The Chief Engineer and Staff Chief Engineer
- ✓ He/ she may be assigned to engine control room watch duties and in this case assists the Engineer Watch Officer by locally monitoring the safe and proper operation of all main propulsion and auxiliary engines and their belonging systems, machinery and equipment within the engine room
- ✓ In case the third engineer is assigned to the ship's hotel maintenance engineering team, he/ she will assist the Hotel Service Engineer in the maintenance and repair of all machineries, equipment and systems outside the main engine room and with hotel area refurbishment projects
- ✓ Reports to the 1st Engineer, Staff Chief Engineer and the Chief Engineer



Third Engineer Job Requirements:

- STVW-95 approved 3rd Engineer License (CoC)
- Experience as a 3rd Engineer or an Engine Cadet on board ships is preferred, but not mandatory
- Degree in Mechanical or Marine Engineering from accredited maritime school or equivalent
- Excellent verbal and written command of the English language

3rd Engineer Salary Range:

\$4200 - 6500 U.S. per month and up depending on the cruise line. Possibilities for promotion to 1st Engineer position.

Cruise Job Descriptions

CRUISE SHIP JOBS - ENGINE CADET / JUNIOR THIRD ENGINEER

Engine Cadet Job Description and Duties:

- ✓ Follows the instructions of the First Engineer and attends the engine control room usually as part of the First Engineer's watch
- ✓ Assists in the maintenance and repair of engine room equipment, as well as other mechanical equipment throughout the ship
- ✓ As part of the training process duties that are customary to the engine department will be assigned to the Engine Cadet by the Chief Engineer
- ✓ Although on training the professional performance of the Engine Cadet will be evaluated for continued long-term career with the cruise line
- ✓ Upon attainment of a National License and completion of at least one assignment aboard a cruise ship the most qualified candidates with the best performance evaluations could be promoted to Third Engineer position depending on current openings in the company's fleet



Engine Cadet / Junior Third Engineer Job Requirements:

- Completion of a four year Maritime Engineering program OR current enrolment in an accredited Maritime Engineering program
- National License (STCW III/1) and valid medical certificate
- Excellent verbal and written command of the English language

Engine Cadet / Junior Third Engineer Salary Range:

\$1500 - 2200 U.S. per month and up depending on the cruise line. Possibilities for promotion to 3rd Engineer position.

Cruise Job Descriptions

CRUISE SHIP JOBS - HOTEL (1ST) ENGINEER

Hotel Engineer Job Description and Duties:

- ✓ Reports to the Staff Engineer and the Chief Engineer
- ✓ Responsible for the maintenance and repair of all machineries, equipment and systems outside the main engine room
- ✓ The Hotel Services Engineer is in charge of all the technical personnel dealing with electrical, electronic, plumbing and air conditioning systems of a cruise ship, as well as chlorination of drinking water, the general water distribution of the ship and that in the swimming pools and jacuzzis
- ✓ Keeps updated the archive of operational or maintenance books, drawings and equipment
- ✓ Assumes the role of the Staff Engineer during prolonged maneuvers



Hotel Service Engineer Job Requirements:

- Certificate of Competency - IMO III/2 (First officer or more, no limitation for other than ro-ro vessels)
- Extensive experience with minimum two years as a Hotel Service Engineer or in subordinate positions on board ships
- Degree in Mechanical or Marine Engineering from accredited maritime school or equivalent
- Very good experience with AC, refrigeration systems, managing a large team of plumbers/ fitters
- Excellent verbal and written command of the English language

Hotel Service Engineer Salary Range:

\$6500 - 8500 U.S. per month and up depending on the cruise line and time served with the company. Possibilities for promotion to Staff Engineer position.

Cruise Job Descriptions

CRUISE SHIP JOBS - CHIEF ELECTRICAL ENGINEER / CHIEF ELECTRICIAN

Chief Electrical Engineer / Chief Electrician Job Description and Duties:

- ✓ Responsible for overseeing the operation and maintenance of the electrical plant and associated electrical systems throughout the cruise ship
- ✓ Ensures that all electrical equipment and machinery on board the ship, such as elevators, fire alarm systems, diesel electric propulsion, navigation equipment, norcontrol systems, cycloconverter propulsion system and all associated systems are properly operated and maintained according to the applicable regulations and international standards
- ✓ Reports directly to the ship's Chief Engineer
- ✓ Supervises the operations of the subordinate members of the cruise ship electrical team - first, second and third electrical engineers / electricians
- ✓ Must be present in the Engine Control Room during maneuvers, drills and emergencies
- ✓ Must work in close cooperation with the Chief Engineer to ensure that all waste streams and environmental systems within the department are operated and maintained according to the international regulations and up to cruise line's environmental policies and standards



Chief Electrical Engineer / Chief Electrician Job Requirements:

- Bachelor of Science in Electrical Engineering (or equivalent 4-year university degree)
- Experience with large electrical plants on ships or offshore installations
- Computer literacy and good verbal and written command of the English language
- Previous ship experience is required

Chief Electrical Engineer / Chief Electrician Salary Range:

\$5000 - 7000 U.S. per month and up depending on the cruise line and time served with the company.

Cruise Job Descriptions

CRUISE SHIP JOBS - ELECTRICIAN / ELECTRICAL ENGINEER

Electrical Engineer / Electrician Job Description and Duties:

- ✓ Responsible for the proper maintenance and repairs of the electrical systems on board the cruise ship as directed by the Chief Electrical Engineer
- ✓ The responsibility for maintenance and repairs of the ship's various electrical systems/equipment is distributed among the electrical engineers/ electricians according to their specific duties
- ✓ The ship's electrical equipment/ systems maintained by the electricians include (but are not limited to) machineries inside the engine room, emergency and auxiliary generators, emergency and auxiliary switchboards, ship's stabilizers, electrical installations of lifeboats and rescue boats, fire alarm and fire door control systems, lifeboats, mooring and anchor winches, CO2 system, ship's public address and public clock systems, laundry equipment, swimming pool and jacuzzi systems
- ✓ All electrical engineers work under the direct supervision of The Chief Electrician



Electrical Engineer / Electrician Job Requirements:

- Completed education as electrical, electronic, or power engineer (Bachelor of Science in Electrical Engineering or equivalent university or college degree is preferred, but not mandatory)
- Work experience on board ships is preferred, but not mandatory
- Computer literacy and good verbal and written command of the English language

Electrical Engineer / Electrician Salary Range:

\$4000 - 5500 U.S. per month and up depending on the cruise line. Possibilities for promotion to Chief Electrical Engineer / Electrician position.

Cruise Job Descriptions

CRUISE SHIP JOBS - ELECTRONIC ENGINEER

1st Engineer Job Description and Duties:

- ✓ Reports to the Chief Electrical Engineer
- ✓ Responsible for the maintenance and repair of all electronic equipment and systems aboard the cruise ship
- ✓ The ship's equipment/systems maintained by the electronic engineer include (but are not limited to) electronic and navigation equipment on the bridge, satellite communication system, electronic equipment in the engine control room, ship's entertainment and TV systems including TV sets, ship's telephone system, telephone sets and personal pagers, camera surveillance system, public address system, UPS systems, fire detection systems, fire and water-tight doors control systems
- ✓ The Electronic Engineer also works in close cooperation with the ship's Production/ Stage Manager and Sound/ Light Technicians to ensure proper maintenance of entertainment systems and stage equipment - show lights, audio/video, platform lifts and theatre curtains



Electronic Engineer Job Requirements:

- Bachelor's Degree or Technical Diploma from accredited university or college
- Relevant working experience required, shipboard experience preferred
- Computer literacy and good verbal and written command of the English language

Electronic Engineer Salary Range:

\$3500 - 4500 U.S. per month and up depending on the cruise line.

Cruise Job Descriptions

CRUISE SHIP JOBS - CHIEF REFRIGERATION ENGINEER / HVAC ENGINEER

Chief Refrigeration / HVAC Engineer Job Description and Duties:

- ✓ Oversees and supervises the operation, maintenance and repair of the ship's HVAC equipment/ system, domestic refrigeration plant, ventilation, cooling, freezing, provision equipment, all air conditioning throughout the vessel plus ice skating arena equipment (available on some ships)
- ✓ Reports to the ship's Staff Engineer and Chief Engineer and is in charge of maintenance and repair of the engine room and galley ventilation systems, multi-flow beverage machines, mini-bar units and ice making machines
- ✓ Responsible for duties distribution and training of subordinate refrigeration engineers
- ✓ Checks and ensures that all environmental systems within the department are operated and maintained up to cruise line's standard and international regulations
- ✓ Ensures that subordinate refrigeration personnel are aware of the cruise line's health, environmental, safety and security policies, as they apply to their positions



Chief Refrigeration / HVAC Engineer Job Requirements:

- National diploma or certificate for Refrigeration Engineer / Technician
- Minimum of 3 years working experience required (experience as refrigeration engineer on cruise ship preferred)
- Computer literacy and very good verbal and written command of the English language
- Must have STCW 95 Certification

Chief Refrigeration / HVAC Engineer Salary Range:

\$6500 - 8500 U.S. per month and up depending on the cruise line and time served with the company.

Cruise Job Descriptions

CRUISE SHIP JOBS - HVAC / REFRIGERATION ENGINEER

HVAC / Refrigeration Engineer Job Description and Duties:

- ✓ Ensures that maintenance and repair of the ship's HVAC equipment/ system, domestic refrigeration plant, ventilation, cooling, freezing, provision, equipment, all air conditioning throughout the vessel are up to the cruise line's standards and international regulations
- ✓ The Refrigeration Engineer is carrying day-to-day maintenance and repair of the engine room and galley ventilation systems, multi-flow beverage machines, mini-bar units and ice making machines as directed by the Chief Refrigeration Engineer
- ✓ Inspects the cleanliness and safety of galley, laundry, and launderette exhaust ducts, and ensures that all required and necessary cleaning routines are properly executed
- ✓ Assist the Chief Refrigeration Engineer in the coordination and control of the refrigeration accounts
- ✓ Responsible for keeping of temperature logs for freezers and cold rooms as required by USPH



HVAC / Refrigeration Engineer Job Requirements:

- National diploma or certificate for Refrigeration Technician
- Relevant work experience as refrigeration engineer/technician
- Experience aboard ships is preferred, but not mandatory
- Good verbal and written command of the English language

HVAC / Refrigeration Engineer Salary Range:

\$4600 - 5600 U.S. per month and up depending on the cruise line. Possibilities for promotion to Chief Refrigeration Engineer position.