

Job Class Profile: Marine Architect**Pay Level: CG-41 Point Band: 950-993**

Factor	Knowledge	Interpersonal Skills	Physical Effort	Concentration	Complexity	Accountability & Decision Making	Impact	Development and Leadership	Environmental Working Conditions	Total Points
Rating	7	5	2	5	7	6	6	1	3	
Points	327	83	13	24	210	130	124	21	32	964

JOB SUMMARY

The Marine Architect provides technical expertise to government departments and agencies on all technical aspects of fishing vessel design, safety, training, construction requirements and other operations.

Key and Periodic Activities

- Provides technical support to government departments and other agencies relating to fishing vessel design, safety, construction requirements and general operation.
- Manages the Department of Fisheries and Aquaculture (DFA) Vessel Development Program.
- Prepares tender documents and Request for Proposals (RFP); evaluates bids and reports to senior management with analysis and recommendations on awarding of same.
- Acts as departmental liaison between private contractors, consultants and other research institutions with reference to work carried out on behalf of the department.
- Plans and organizes research projects and evaluates new technology as applicable to fishing vessel design, safety and efficiency.
- Reviews and evaluates externally generated proposals and reports to management.
- Represents the department on various committees and working groups.

SKILL**Knowledge****General and Specific Knowledge:**

- Knowledge of Naval Architecture especially in the areas of hull design, operation, safety construction and vessel stability.
- Knowledge of the tender and RFP process.

Formal Education and/or Certification(s):

- Minimum: Undergraduate Degree in Engineering (Naval Architecture). Marine Emergency Duties (MED) course is required for at-sea travel.

Years of Experience:

- Minimum: 4 to 5 years.

Interpersonal Skills

- A range of interpersonal skills are used to listen to obtain information, ask questions to gain information, report routine information and communicate complex ideas to others, facilitate meetings and make formal presentations and from time to time deal with upset people and gain the cooperation of others to complete work and address issues.
- Most significant interactions are with professional groups/ clients related to project work; provincial and federal government representatives on committees and, co-workers/employees and managers in the department to provide advice, report on projects and seek direction.

EFFORT

Physical Effort

- Work does not result in considerable fatigue requiring periods of rest.
- Work requires periods of regular sitting, standing and walking, and using fine finger work when at the computer. Occasionally requires maintaining physical balance while on sea trials.
- Work also requires occasional driving of vehicles and lifting of objects 10-25 lbs.

Concentration

- **Visual** concentration is a regular requirement while conducting research and reviewing documents and designs.
- A **high level of alertness and attentiveness** is required when at sea on a vessel to ensure safety and when at meetings and when giving presentations.
- **Time pressures and deadlines** occur when there is a requirement to prepare briefing notes or correspondence.

Complexity

- Tasks range from different but related to different and unrelated based on project, issue and committee role.
- In some cases there are challenges or problems that must be defined and practical solutions found as well as challenges with limited opportunity for standardized solutions, and a need for creative problem definition and development of complex solutions.
- Work also includes highly technical tasks or problems with strategic or policy significance.
- The most typical issues to solve are: determining how to improve the safety of fishing vessel operation; how to improve the vessel as a working platform with reference to its motion; how to improve the safety culture among fishers; policy review for impact on vessel safety and how to improve operating efficiency.
- Other professionals and expert staff, Safety Regulations, Canada Shipping Act, Policy and Procedure manuals, technical reference books and senior Management are available as references or resources.

RESPONSIBILITY

Accountability and Decision-Making

- Work tasks are generally prescribed or controlled.
- Work is performed under general direction but requires demonstrating strong decision making and analytical skills and being professionally accountable.

- Professional expertise and knowledge is exercised in review, analysis, provision of advice and recommendations.

Impact

- Results are directly felt within the fishing industry, department, and by clients.
- Results directly impact equipment, processes, finances, material and human resources, contractors, the general public, and health and safety.
- Consequences of errors could have some impact on information, health and safety and corporate image and be felt outside the department by clients and the industry.

Development and Leadership of Others

- Although not a requirement, may lead a piece of work where no other departmental staff is involved or act as a technical advisor/ subject matter expert to departmental staff and external clients.

WORKING CONDITIONS

Environmental Working Conditions

- Work tasks normally do not require protective gear and precautions. If travelling on fishing vessels an MED course is required.
- The likelihood of injury or illness is limited.
- Normally works in an office environment and is not exposed to any adverse environmental conditions. Exception is when occasionally at sea on fishing vessels.