

Study and analysis of passage planning principles.

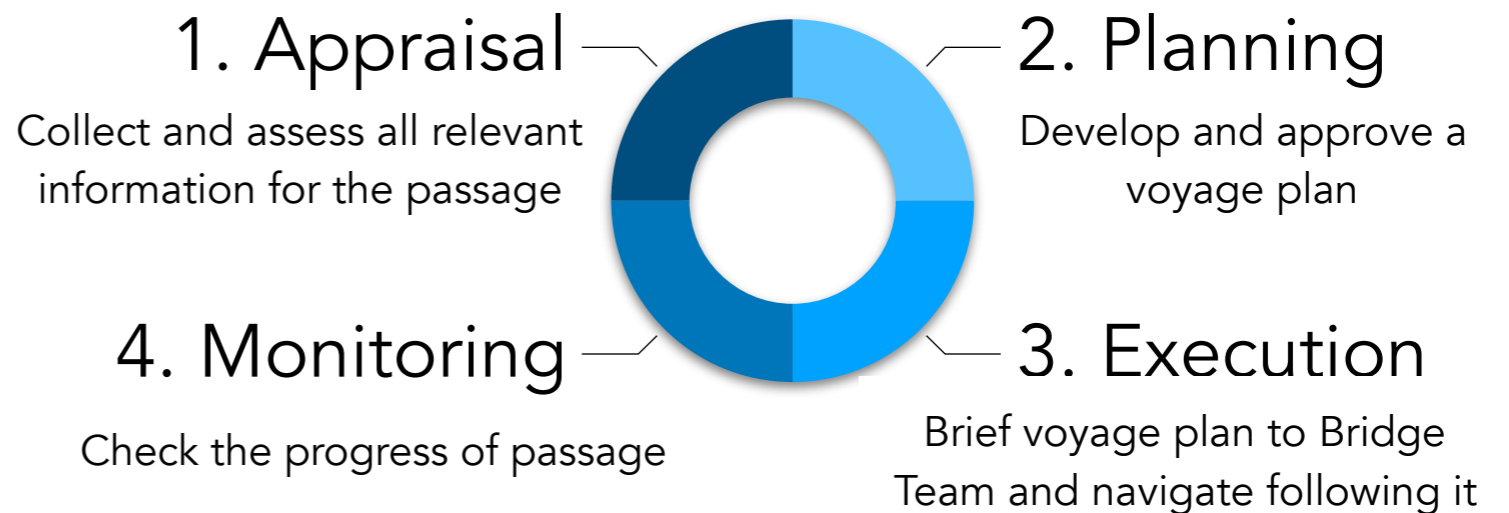
Voyage planning and monitoring from Sakai to Point Fortin



Passage planning

Safe and comprehensive navigation plan berth to berth:

- Risk assessment
- Evaluates sea space and depths
- Defines proper position fixing
- Reporting requirements and routing measures
- Expected traffic and weather conditions
- Compliance with environmental protection measures



HIGH TRAFFIC FISHING AREAS · BUSY STRAITS · OPL OPERATION · TROPICAL CYCLON

Voyage performance assessment

-30 % IMO GOAL for LNGc:



Optimisation: trim, speed, use of rudder, use of engine, NBOG management, heating, cooling and lightning



ENVIRONMENTAL COST

Voyage emissions = 12,400 t CO₂
EEOI = 31 g CO₂ / t · nm



ECONOMICAL COST

Voyage cost = 5.43 M\$
Consumption = 108.9 t / day