

The Apprentice School
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MV Bon Voyage - The Apprentice School

The *MV Bon Voyage* was designed by The Apprentice School team consisting of, Dat Luong, Andrew Hathaway, Ricardo Palacios, Ryan Saloka, and Calvin Warner. Dat, Andrew, Ryan, and Ricardo started at The Apprentice School as outside machinist apprentices and Calvin started as a ship-fitter apprentice. The Apprentice School is located in Newport News, Virginia and has been a part of Newport News Shipbuilding since 1919. The Apprentice School offers apprentices on-the-job training in 19 unique shipbuilding disciplines. Apprentices are also enrolled in classes that are designed to further the students' career in the shipbuilding industry. At The Apprentice School, students are taught vital leadership skills that they will someday be able to use as leaders of Newport News Shipbuilding.

The design of the *MV Bon Voyage* is based off of lessons learned from previous ferry disasters. The goal of the design was to have a ferry transport people as well as freight safely in the environment surrounding Papua New Guinea. Proven technologies found in different industries were incorporated into the design to mitigate the chances for a disaster, as well as improve survivability of its passengers and crew if a disaster were to happen. The MV Bon Voyage is a single-ended, monohull ferry with a 12 meter beam and a length of 50 meters overall. The hull is constructed from steel with the upper levels constructed from aluminum. The Bon Voyage has a carrying capacity of up to 200 passengers and 24 average size vehicles. It is designed to travel at a maximum speed of 18 knots with a range of 1000 nautical miles on its diesel-electric hybrid propulsion plant.