

# Tropical Storm and Heavy Weather Navigation

This course aims to provide the knowledge, skills, and behaviors required to safely navigate a vessel in tropical storms and heavy weather conditions. It also aims to minimize damage and cargo loss or claims resulting from cargo loss overboard in heavy weather.

## Training Outcome/s

After the training, participants must be able to:

- Explain tropical storm formation.
- Identify and plot the tropical storms.
- Avoid the dangerous semicircle of the tropical storm.
- Create an anti-collision plot to avoid tropical storms.
- Explain and recognize the ship's behavior in the seaway.
- Explain the influence of rolling in severe weather.
- Determine the parameters needed to assess if the ship is being successively attacked by high sea.
- Demonstrate the preparation of the diagram to avoid successive high-wave attacks.
- Identify the required control measures to avoid synchronous rolling.
- Identify the required control measures to avoid parametric rolling.
- Use the diagram to get the period encountered.
- Use the Bretschneider diagram to forecast waves, predict the significant wave height, and fetch length/duration.
- Demonstrate an accurate meteorological voyage planning necessary to avoid areas with heavy weather and implement the required control measures.

## Entry Standard/s:

Deck Masters and Officers