 **Podcast series “Casting into the Blue”**

***Ep. 1 – Interview with the Chief Engineer***

**Background**

Casting into the Blue is a podcast series about the interesting jobs and people who are on board the JOIDES Resolution science vessel. This ship is one of the world’s few science drilling vessels and has been operating in every ocean round the globe since 1985. It drills into the ocean floor to collect and study core samples that help scientists better understand climate change, geology and Earth’s history.

**Summary**

Listen to our podcast interview with the JR’s **Chief Engineer** to find out what his job involves, and then answer the follow up questions found on the next page.

**National Science Education Standards**

**Standard G:** Science in personal and social perspectives

**Target Audience**

Ages 10 to 15

Grades 5 to 8

**Time Required**

Approximately 30 minutes.

**Contents and Materials**

<https://soundcloud.com/joides-resolution/sets/casting-into-the-blue-careers-on-board-the-jr>

* Laptop/smartphone with wifi
* Earphones
* Paper and pen



**What to do:**

* Before you start, write down what you think a **Chief Engineer** does.
* Write down three things you think the chief engineer will talk about
* Listen to the podcast (7.59 minutes) then answer the following questions: <https://soundcloud.com/joides-resolution/sets/casting-into-the-blue-careers-on-board-the-jr>

**Follow up listening comprehension questions**

* Where did the Engineer grow up?
* What was he interested in when he was growing up?
* List the different types of ships the Chief Engineer mentions.
* What types of different propulsion plants are there? (a ‘plant’ means industrial machinery).
* What type does he specialize in?
* What is the latest ‘trend’ in ship propulsion?
* What might ships run on in the future?
* What does a Chief Engineer do on an average day?
* What hours does the Chief Engineer work?
* What is drinkable water called?
* How many machines are there on board that can make drinkable water from seawater?
* What happens to make fresh water?
* How do they disinfect the water?
* How much water did they use per day on the ship?
* What happens if they find bacteria in the water?
* What happened in the old days when they didn’t have seawater distillation?