

2nd class power engineer exam questions

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2nd Class Power Engineer Exam Questions: A Comprehensive Guide

Aspiring power engineers must pass the 2nd Class Power Engineer Exam to obtain their license. The exam covers various topics related to power plant operations and maintenance. Here are some frequently asked questions and their answers to help you prepare:

- 1. Question:** What is the purpose of a steam turbine? **Answer:** A steam turbine converts the thermal energy of steam into mechanical energy, which is then used to generate electricity.
- 2. Question:** Describe the different types of boilers used in power plants. **Answer:** Power plants commonly use fire-tube and water-tube boilers. Fire-tube boilers have tubes containing hot gases that pass through water, while water-tube boilers have tubes containing water that pass through hot gases.
- 3. Question:** What is the significance of the feedwater heater in a power plant? **Answer:** A feedwater heater preheats the water entering the boiler, making it more efficient by reducing the amount of heat required to convert it into steam.
- 4. Question:** Explain the working principle of a condenser in a power plant. **Answer:** A condenser condenses steam from the turbine exhaust into water, creating a vacuum that allows the turbine to generate power.
- 5. Question:** Describe the steps involved in maintaining electrical safety in a power plant. **Answer:** Electrical safety maintenance includes regular inspections, testing, and proper grounding of equipment, as well as adherence to safety protocols to prevent electrical shocks and other hazards.



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