

THRUST REVERSER

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Thrust Reversers: Explained

What is a Thrust Reverser?

A thrust reverser is a device fitted to the engines of aircraft that helps to decelerate the aircraft on landing. It works by redirecting the engine's exhaust gases forward, creating a reverse thrust force that opposes the forward motion of the aircraft.

How Does a Thrust Reverser Work?

Thrust reversers operate on the principle of Newton's Third Law of Motion, which states that for every action, there is an equal and opposite reaction. When the engine exhaust gases are redirected forward, they create a reaction force that pushes the aircraft backward. This force helps to slow down the aircraft and reduce the landing roll distance.

What Types of Thrust Reversers Are There?

There are two main types of thrust reversers:

- **Target thrust reversers:** These are located behind the engine and consist of movable doors or panels that open to redirect the exhaust gases forward.
- **Cascade thrust reversers:** These are installed within the engine itself and use a series of vanes to guide the exhaust gases forward.

What is the Purpose of Thrust Reversers?

Thrust reversers serve several important purposes, including:

- **Reducing landing distance:** By providing a reverse thrust force, thrust reversers help to shorten the landing roll distance, especially on wet or slippery runways.
- **Improving braking efficiency:** Thrust reversers can assist the aircraft's brakes in reducing speed and preventing skidding.
- **Managing noise:** Some thrust reversers can also be used to reduce engine noise during landing.

When Are Thrust Reversers Used?

Thrust reversers are typically activated during the landing phase of flight, once the aircraft has touched down on the runway. They are often used in conjunction with the brakes to achieve maximum stopping power. However, thrust reversers may not be used in all landing situations, such as when the runway is very short or when there is a strong crosswind.

Worksheet 2: Input Devices in ICT

1. What is an input device?

An input device is a hardware component that allows a user to enter data or instructions into a computer system. It converts real-world signals into digital form that the computer can process.

2. List three common input devices and describe their functions.

- **Keyboard:** Used for entering text, numbers, and commands by pressing keys.
- **Mouse:** Used for controlling the on-screen cursor and selecting items by moving it.
- **Scanner:** Captures images or documents and converts them into digital form.

3. Explain the difference between a direct and indirect input device.

- **Direct input device:** Converts physical input directly into digital signals, such as a keyboard or mouse.
- **Indirect input device:** Requires additional hardware or software to convert input into digital signals, such as a microphone or gaming controller.

4. What is a touchscreen and how does it work?

A touchscreen is an input device that detects the presence of a finger or stylus on its surface. It uses capacitive or resistive technology to sense the change in capacitance or resistance caused by the contact.

5. Describe the advantages and disadvantages of optical input devices.

Advantages:

- Highly accurate
- Can capture images and documents with high resolution

Disadvantages:

- Require specialized hardware and software
- Can be affected by environmental conditions

UAE Labour Law: Frequently Asked Questions and Answers

The United Arab Emirates (UAE) has a well-established labour law that governs employment relationships within the country. Here are some commonly asked questions and their answers:

1. What is the minimum age for employment in the UAE?

- The minimum legal working age is 15 for UAE nationals and 18 for expatriates. Minors under the age of 18 require written parental consent to work.

2. How many hours can I work per week?

- The standard workweek in the UAE is 48 hours, with regular working hours being 8:00 AM to 5:00 PM, Sunday through Thursday. However, there may be exceptions based on industry or occupation.

3. Am I entitled to annual leave?

- Yes. Full-time employees are entitled to a minimum of 30 calendar days of annual leave per year. Unused leave can be carried over to the following year up to a maximum of 60 days.

4. Can my employer terminate my contract without notice?

- Generally, no. An employer must provide a written notice period to terminate an employee's contract, which varies based on the employee's length of service and contract terms. Failure to provide sufficient notice may result in the employee being entitled to compensation.

5. What are my rights if I am injured on the job?

- Employees who suffer work-related injuries or illnesses are entitled to compensation under the UAE Labour Law. Compensation typically includes medical expenses, lost wages, and other benefits as determined by the law and relevant authorities.

It is important to note that these are general guidelines and specific employment rights and obligations may vary depending on the circumstances and provisions of individual employment contracts. If you have any questions or concerns about your employment in the UAE, it is advisable to consult with a qualified labour lawyer or the relevant government authorities.

"Till the Last Breath" by Durjoy Datta: Questions and Answers

Paragraph 1:

- **What is the premise of "Till the Last Breath"?**

Ans: It follows the poignant journey of Sohini, a single mother diagnosed with a terminal illness, and her determination to fulfill her daughter's dreams before her time runs out.

Paragraph 2:

- **How does Sohini's diagnosis affect her relationship with her daughter, Ahana?**

Ans: Initially strained by secrets and misunderstandings, their bond deepens as Sohini confronts her mortality and prioritizes Ahana's happiness.

Paragraph 3:

- **What are some of the obstacles that Sohini faces in her journey?**

Ans: She grapples with physical pain, emotional turmoil, and financial constraints as she navigates her illness while caring for her daughter.

Paragraph 4:

- **How does the novel explore themes of motherhood, sacrifice, and the human spirit?**

Ans: "Till the Last Breath" showcases the unwavering love and sacrifices that mothers make, the indomitable spirit in the face of adversity, and the transformative power of human connection.

Paragraph 5:

- **What is the overall message of the novel?**

Ans: It emphasizes the fragility of life, the importance of cherishing every moment, and the enduring bonds that sustain us in times of trial. Through Sohini's journey, Datta highlights the exceptional strength and resilience of the human spirit.

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