

What is HTT-40?

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About HTT-40 trainer aircraft:

- The **Hindustan Turbo Trainer-40 (HTT-40)** is a **basic trainer aircraft (BTA)**.
- It is designed and developed by **Hindustan Aeronautics Limited (HAL)**.
- **Features:**
 - It is a **turboprop aircraft** designed to have **good low-speed handling** for better training effectiveness.
 - It has a **maximum take-off weight of 2.8 tonnes**.
 - It can achieve a **top speed of 450 Km/hr** and a **maximum range of 1,000km**.
 - The **fully aerobatic tandem seat** HTT-40 has an **air-conditioned cockpit**, **modern avionics** with multifunction displays, **hot refueling**, and **zero-zero** (zero speed and zero altitude) **ejection seats**.
- The aircraft will **meet the shortage of BTAs for the training of newly inducted pilots** of the Indian Air Force (IAF).
- It will be used for **basic flight training**, aerobatics, **instrument flying**, and close formation flights, in addition to undertaking secondary missions such as navigation and night flying flights.

What is a turboprop aircraft?

- A turboprop aircraft **uses a turbo-prop** engine rather than a piston-powered engine or a jet engine.
 - They have **one or more gas-turbine engines connected to a gearbox** that turns the propeller(s) to **move the aircraft on the ground and through the air.**
 - Turboprop aircraft **have lower operating costs** than jets because **they burn less fuel**, but **they are also slower than jets.**
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Q1) What is Hindustan Aeronautics Limited (HAL)?

Hindustan Aeronautics Ltd (HAL) is an aerospace and defense company, owned by the government of India. The company develops, designs, manufactures, and supplies aircraft, helicopters, avionics, and communications equipment for military and civil markets.

Source: [Cabinet approves procurement of HTT-40 trainer aircraft, cadet training ships for ₹9,936 crore](#)

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