RADAR

Radio Detection and Ranging

# Scope

Principals of radar

Radar involves the transmission of pulses of electromagnetic waves bouncing off the target and caught

The distance to the target is determined by how long it takes for the pulse to return

# Primary radar

Primary radar

Secondary surveillance Radar (SSR)

A secondary radar system is a co-operative target identification system in which the interrogator transmits and encoded signal to the target

The signal transmitted by the secondary radar is intercepted and received by the target

Types of SSR

Type A – used to identification

Type Bravo – Not used

Type C – Altitude, Climb/Descend, Indication, Ground Speed

Type S – Selective SSR allows ATC to get all information about the aircraft

7700 emergency

7600 radio problems

7500 hijack