

Flying Start Challenge



A320 Cabin Design Mark Scheme

AIRBUS

ATKINS
Member of the SNC-Lavalin Group

BAE SYSTEMS

 ROYAL NAVY
FLEET AIR ARM
MUSEUM

 **GKN AEROSPACE**

 **LEONARDO**
HELICOPTERS

MBDA
MISSILE SYSTEMS

 **ROLLS ROYCE**

 **SAFRAN**

Marking Scheme

The airline will judge the cabin based on the following criteria:

- Revenue /30
 - Number of Economy class seats
 - Number of Business class seats
- Use of Space /5
- Passenger Comfort /5
- Safety /5
- Innovation /5

Basic Requirements

- Require an optimum configuration to produce the most profit.

Finance Information

- Business class seat revenue = £500 per seat
- Economy class seat revenue = £200 per seat
- Staff salary deduction = £100 per flight (per staff member)

Operational Requirements

- 1 toilet per 15 business class passengers and 1 per 50 economy class passengers.
- Business and economy class passengers must use different toilets.
- Business class passengers must not walk through economy class to reach the toilet and vice versa.
- 1 galley per 24 business class passengers and 1 per 100 economy class passengers.
- Galleys can serve both business and economy class and can be located in either area.
- 1 attendant per 10 business class passengers and 1 per 40 economy class passengers.

Regulations

- Fittings can only be drawn using templates.
- Seats must face forwards.
- You may use 1 or 2 class layout; however classes must be separated with a straight line across the cabin.

AIRBUS

ATKINS
Member of the SNC-Lavalin Group

BAE SYSTEMS

ROYAL NAVY
FLEET AIR ARM
MUSEUM

GKN AEROSPACE

LEONARDO
HELICOPTERS

MBDA
MISSILE SYSTEMS

ROLLS ROYCE

SAFRAN