MSc Logistics and Operations Management; MSc Maritime Policy and Management

BST 834 – Multimodal Transport Operations

Professor Anthony Beresford

Coursework

Answer either Question 1 or Question 2.

Question 1.

Part 1. (40%)

Write a critique of the aircraft assembly process, making specific reference to
- **traditional models concerning influences on modal choice (e.g. McKinnon, 1989)**
- **international freight transport models (e.g. Hayuth, 1987).**
- **The wider literature**

Part 2. (60%)

Construct a time-cost-distance model to fit the assembly of Airbus aircraft.
- **Your model should follow the methodology outlined by UNESCAP, and originally designed and published by Beresford (1999).**
- **You should focus primarily on the movement of the main sub-assemblies (i.e. wings, tail planes, fuselage, engines, airframe, other components) from their respective construction locations to final assembly in Toulouse, France.**

Question 2.

Part 1 (20%)

With reference to Far East – Europe trades, explain why a variety of routeing options and modal combinations can operate successfully in parallel.

Part 2 (30%)

Map the main options in the form of an established time/cost – distance model (see, for example, Beresford (1999); UNESCAP website).

Part 3. (50%)

How might the model referred to in Part 2 be embellished and improved in order to take account of the prevailing Far-East – Europe trades and the 'Belt and Road Initiative'?

- Your essay should be no more than 3000 words in length and should be properly referenced by means of in-text sourcing and the provision of a full bibliography.

- Your essay should be supported by maps, diagrams, and tables where appropriate. These do not contribute to the overall word count.

- Your essay must be submitted through the electronic submission process by the date specified in the Programme Handbook.

Professor A Beresford
24th February 2020