

## Candidate 4

The evidence for this candidate has achieved the following marks for each question/*section* of this Course Assessment component.

### Question 1(a)

The candidate was awarded **6 marks** because they provided 6 explanations of why the materials had been chosen:

- ◆ Tubular steel – good strength to weight ratio
- ◆ Waterproof cloth – fade resistant
- ◆ Nylon – rigid/durable
- ◆ Galvanised Steel – corrosion resistant
- ◆ Polypropylene – comfortable grip
- ◆ Rubber – tough/durable

### Question 1(b)

The candidate was awarded **6 marks**. Three processes identified with suitable explanations:

- ◆ Extrusion – long lengths/uniform cross section
- ◆ Press forming – repeatable/increased strength through folding
- ◆ Injection Moulding – economies of scale

### Question 1(c)

The candidate was awarded **3 marks**.

- ◆ Physiology (2 marks) – easy to lift due to lightweight materials and handles
  - manoeuvrability because of one wheel/pivot
- ◆ Psychology (1 mark) – whole statement

### Question 1(d)

The candidate was awarded **5 marks**.

- ◆ Easy to load
- ◆ Easy to manoeuvre
- ◆ Stable
- ◆ Easy to fold
- ◆ Easy to unload
- ◆ Durability

**Question 1(e)**

The candidate was awarded **4 marks**.

- ◆ Readily available
- ◆ No time/money wasted producing components
- ◆ Pre-Quality assured
- ◆ Wide choice of components gives manufacturer flexibility

**Question 2(a)**

The candidate was awarded **2 marks**.

- ◆ Cheaper than solid timber
- ◆ Wide variety of looks available

(no marks for strong and durable)

**Question 2(b)**

The candidate was awarded **2 marks**.

- ◆ One piece construction to increase strength
- ◆ Mould can be used multiple times (economies of scale)

**Question 2(c)**

The candidate was awarded **1 mark** for the Gantt chart statement

**Question 3(a)**

The candidate was awarded **2 marks**.

- ◆ Hollow/less material used
- ◆ Repeatability

(no marks for complex shapes statement) ??

**Question 3(b)**

The candidate was awarded **3 marks**.

- ◆ Correct material and two correct reasons (strong and durable/scratch resistant/range of colours).

**Question 3(c)**

The candidate was awarded **2 marks**.

- ◆ Nothing sharp and pointy
- ◆ No small parts
- ◆ No hazardous chemicals

**Question 3(d)**

The candidate was awarded **3 marks**

- ◆ Recycled materials
- ◆ Less chemicals during manufacturing
- ◆ Reduced packaging

**Question 4(a)**

The candidate was awarded **2 marks**.

- ◆ Durability on building site
- ◆ Charge power tool batteries

**Question 4(b)**

The candidate was awarded **1 mark**

- ◆ Whole statement shows some understanding of anthropometrics

**Question 4(c)**

The candidate was awarded **2 marks**.

- ◆ Marks awarded for clear but basic description of a user trial.

**Question 4(d)**

The candidate was awarded **2 marks**.

- ◆ Customer recommendations
- ◆ Assumed quality

**Question 5(a)**

The candidate was awarded **2 marks**.

- ◆ Survey statement
- ◆ Product comparison statement

**Question 5(b)**

The candidate was awarded **2 marks**.

- ◆ Unique ideas
- ◆ Expensive to hire

**Question 5(c)**

The candidate was awarded **0 marks** because they provided an incorrect response to the question.

- ◆ Spider diagram is generally used as an analysis tool
- ◆ Morphological analysis incorrectly described.

**Question 6**

The candidate was awarded **3 marks** because they have displayed a limited knowledge and understanding of aesthetics although some fair points were made.

**Total 53 Marks**