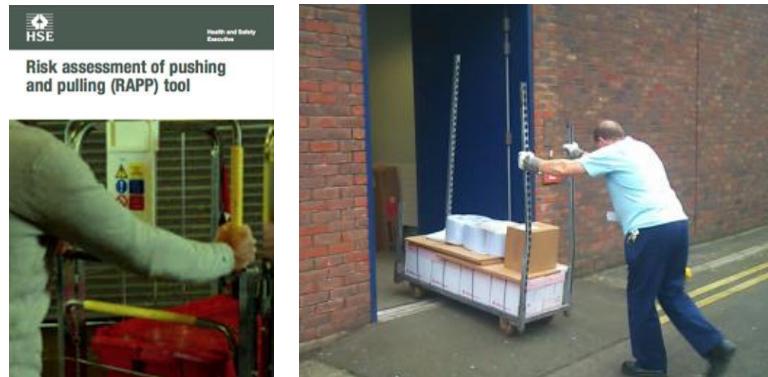




## **RAPP Tool Assessment 1 - Pushing load on wheeled equipment**



Factors	Colour Band & Numeric Score
A-1 Load Weight	0
A-2 Posture	3
A-3 Hand Grip	1
A-4 Work Pattern	0
A-5 Travel Distance	3
A-6 Condition of equipment	4
A-7 Floor surface	4
A-8 Obstacles along the route	3
A-9 Other factors	2
Total Score	20

### **A-1 Type of equipment/Load weight (kg)**

Medium, with three or more fixed wheels and/or castors (load approx 140 kg).

**Less than 250 kg. Low G/0**

### **A-2 Posture**

**Reasonable A/3. Body is inclined in direction of exertion**

Forward bend in the lower back due to using body weight to push the trolley. This will result in strain on the neck and lower back muscles, ligaments and discs; and shoulder muscles, ligaments and tendons.

### **A-3 Hand grip**

**Reasonable A/1.** There are handhold areas, but they only allow a partial grip, e.g. fingers clamped at 90 degrees, or partial hand contact for pushing

Doesn't fit with comfortable power grip, as handles are square metal struts rather than cylindrical.

### **A-4 Work pattern**

**Good G/0.** The work is not repetitive. The pace of work is set by the worker

### **A-5 Travel distance**

**Long R/3. More than 30m**

Deliveries from stores around campus, variable distances. Increased distance results in increased risk of injury due to musculoskeletal fatigue.

### **A-6 Condition of equipment**

**Poor R/4. Equipment in poor state of repair**

'Make shift' trolley with bent and broken handles. No system in place for regular maintenance or reporting of defective equipment.

### **A-7 Floor surface**

**Poor R/4. Contaminated (wet and possible debris). Steep slope (gradient more than 5 degrees)**

Although the video was taken on a dry day, the task is still undertaken after it has been raining with possible debris (leaves in autumn, grit salt in winter).

### **A-8 Obstacles along the route**

**Poor R/3. Steep ramps or 2+ obstacles**

Video shows task as pushing up ramp but potentially also through closed/ narrow doors, confined spaces, around bends/ corners/ objects. You would need to consider whole journey.

### **A-9 Other factors**

**Two or more factors present. R/2**

**There are poor lighting conditions (outside both bright sunshine and darkness in morning/ evening in winter)**

**There are extreme hot or cold temperatures (outside consider summer and winter)**

**There are gusts of wind or other strong air movements**