

**AAMHP Conference  
27 May 2014**

**Ceiling hoist workshop:  
Building the case for ceiling hoists**



## Master plan

- Site determined; feasibility
- Establish hazards & possible solutions

## Project definition

- Committees established; scope
- Work area analysis; systems of work



## Schematic design

- Finalise room functions; design briefs and layout
- Confirm PH equipment/ practices



## Design development

- Sign off; details finalised
- FF&E established – assess suitability

## Documentation, construction and commissioning

- Documentation for construction
- Selection of materials

## Post occupancy/ evaluation

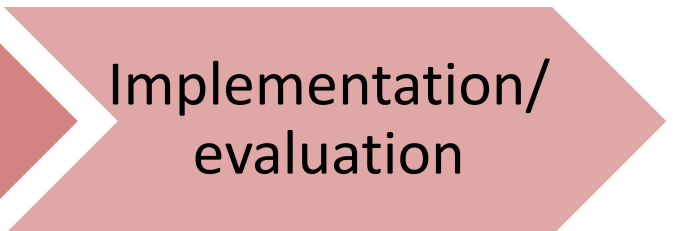
- Evaluate with user groups
- Log of issues



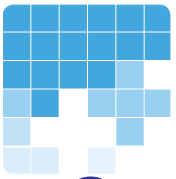
Initiation/  
prioritisation



Specification



Implementation/  
evaluation

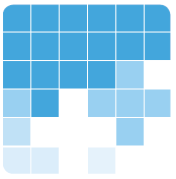


# Case Study: Ceiling Track Hoists at GCUH

*When and how to get involved*



**Simone Eggers, Physiotherapist**  
Manual Handling and Ergonomics Coordinator



## 3 Stages of design and installation of ceiling track hoists

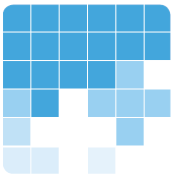
### 1. Prioritization stage

How to influenced the decision?

Evidence:

- Best practice
- Benchmarking
- Current difficulties
- Injury data





## 2. Specification stage

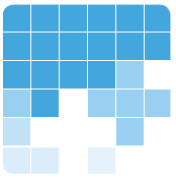
What do you want?

How do you choose?

- Tender process
- Selection criteria
- Functionality
- Key features
- Risks V Benefits



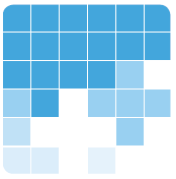




## 2. Specification stage

Selection process: How to choose between types of systems?





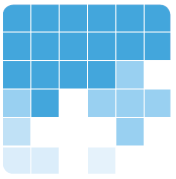
## 2. Specification stage

Risks of two operating systems



**Our  
450kg  
bariatric  
rooms**



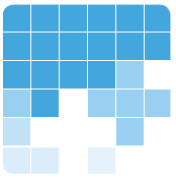


## 2. Specification stage

Considerations for traverse system design



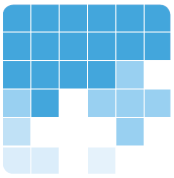




## 2. Specification stage

Specialty areas





## 2. Specification stage

### Who is installing your hoists?

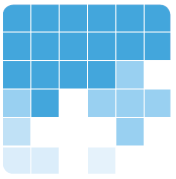
FF&E group definitions from AHFG's

**Group 1** – Items supplied and fixed by the contractor.

*Group 1A: Clinical impact items* eg. ceiling hoists:  
Specifications will be developed in consultation with relevant QH technical and clinical experts. Technical specifications from Vendors will be reviewed by client.  
Requires QH sign-off.

**Group 2** – Items supplied by the client and fixed by the contractor.

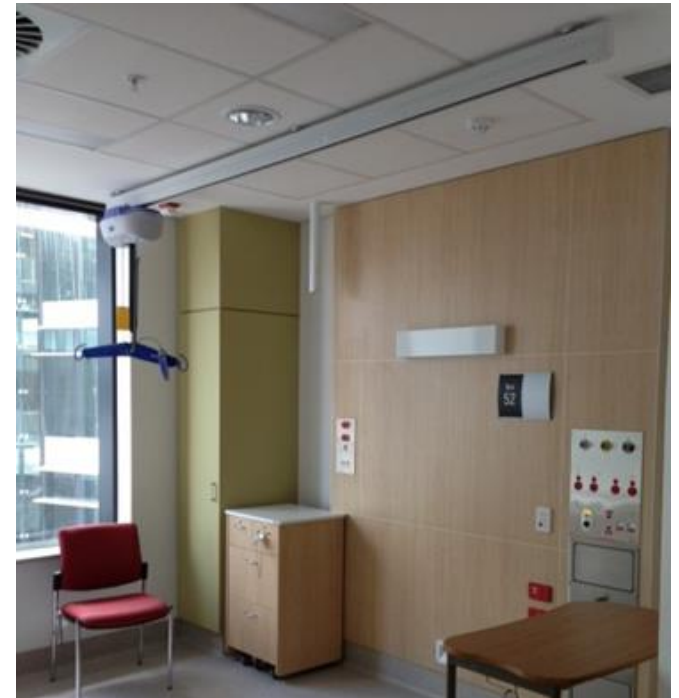
**Group 3** – Items supplied and installed by the client or their chosen third party.

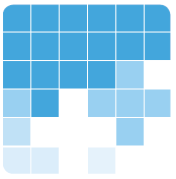


### 3. Installation stage

#### Issues:

1. Design issues:
  - 2 point Vs 4 point spreader bars
  - Battery flattening
  - Charging stations over basins
2. Staff training





## 3. Installation stage

### 2. Staff training

- Responsibilities
- Model
- Site access
- Temporary gantry
- Education centre
- Competency forms



# Case study 2.

## Ceiling Track Hoists at the Townsville Hospital

Mark Enders

Physiotherapist / Manual Handling Coordinator  
Townsville Hospital and Health Service





# Birth Centre



# Palliative Care



# Medical 4



# Maternity



# ICU





# Mortuary



# **Ceiling Hoist – Mortuary Case Study**

## **3 stages of design and installation of ceiling hoists**

**West Moreton Hospital and Health Service**

**Occupational Health and Safety Unit – Ipswich Hospital**

**Megan Green – Ergonomics Physiotherapist**

# Stage 1 - Prioritisation

- Statement of need – background
  - 2005 to 2010 there was a 250% increase in the number of obese patients being treated
  - Several recent examples of incidents occurring with moving bariatric patients
  - Deceased bariatric patients presenting an OHS risk to staff and loss of dignity to the patient
  - Review of management of bariatric patients within Ipswich Hospital - mortuary

# Stage 1 - Prioritisation

- Consultation:
  - Bariatric Working Group and Clinical Subgroup
  - Equipment suppliers
  - Scientific Services and OHS Practitioners
  - Various guidelines
  - Engineering and Maintenance Department
  - Executive Director Ipswich Hospital

# Stage 1 - Prioritisation

- Needs of Ipswich Hospital established
  - Larger patient transfer within the mortuary
- Management of the bariatric patient within the West Moreton Hospital and Health Service – Concept Brief completed 2012
  - Presented to the Executive team



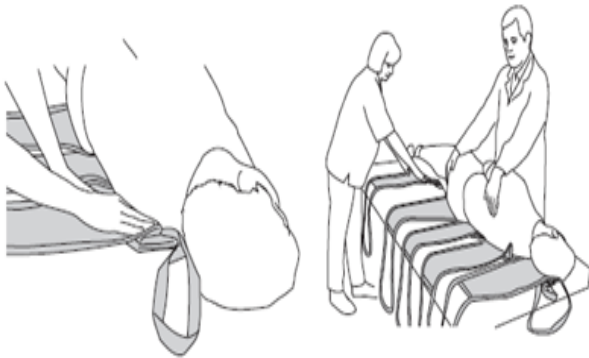
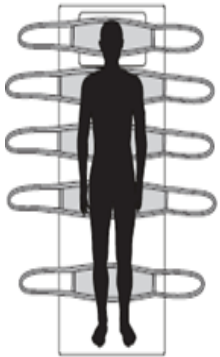
# Stage 2 - Specification



# Stage 2 - Specification



# Stage 2 - Specification





# Stage 2 - Specification



# Stage 3 - Installation/evaluation

- Issues:
  - Motor cutting out – pivot on motor re-designed
  - Training of staff
  - Changing practice
  - Use of straps vs mortuary bag
- Evaluation:
  - Incident data, use of hoist
  - Consultation with users
  - Review of procedure and FURAT



# Tools and Templates

Donna Lee

Principal Advisor - Ergonomics

Workplace Health and Safety Queensland

