# task analysis focus on HTA

extract from chap 7 slides for Human Computer Interaction http://www.hcibook.com/

# What is Task Analysis?

- Methods of analysing people's jobs:
  - what people do
  - I what things they work with
  - what they must know



## in order to clean the house

- get the vacuum cleaner out
- fix the appropriate attachmentsclean the rooms
- when the dust bag gets full, empty it
- put the vacuum cleaner and tools away

### must know about:

I vacuum cleaners, their attachments, dust bags, cupboards, rooms etc.

# Approaches to task analysis

- Task decomposition splitting task into (ordered) subtasks
- Knowledge based techniques what the user knows about the task and how it is organised
- Entity-relation based analysis relationships between objects, actions and the people who perform them

General method: observe collect unstructured lists of words and actions organize using notation or diagrams

















### **Sources of Information**

### Documentation

N.B. manuals say what is supposed to happen but, good for key words and prompting interviews

### Observation

formal/informal, laboratory/field (see Chapter 11)

Interviews

the expert: manager or worker? (ask both!)

# Early analysis

Extraction from transcripts list nouns (objects) and verbs (actions) beware technical language and context: `the rain poured' vs. `I poured the tea' Sorting and classifying

grouping or arranging words on cards ranking objects/actions for task relevance (see Ch. 11) use commercial outliner

Iterative process: data sources ↔ analysis

But costly, so use cheap sources where available



