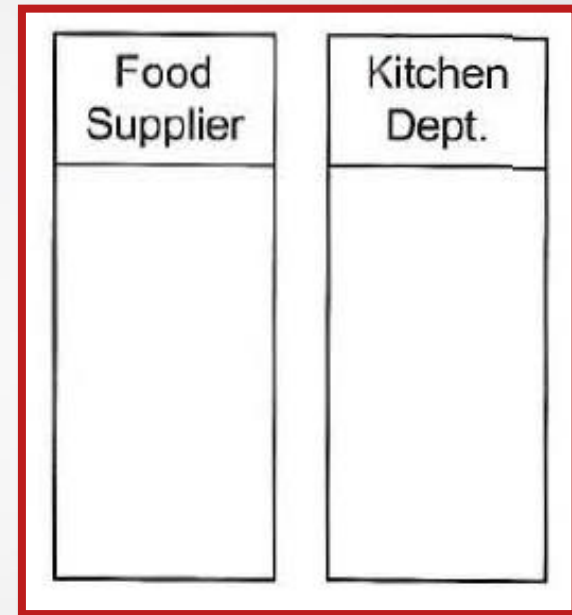# CO457
Business Modelling

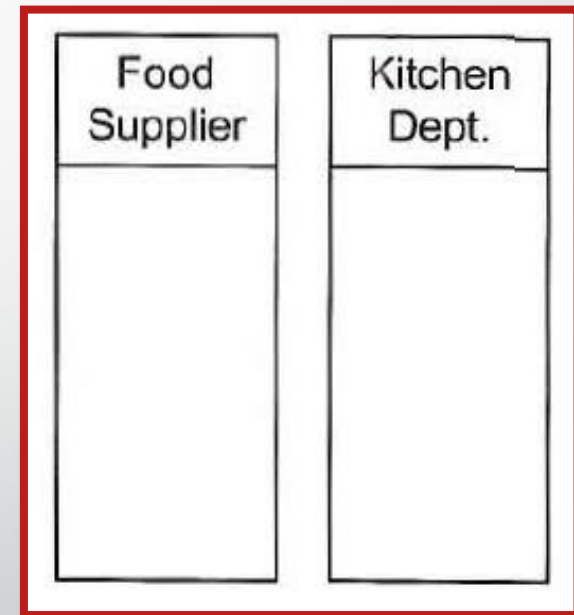Module Week 8

Swim lanes and Artifacts

Swimlanes

- Swim lanes are pools and lanes
  - **Used for drawing workflow diagrams**
- Pools
  - **Represent a participant in a process**
  - Vertical or horizontal
  - **Sequence flow cannot cross between pools**

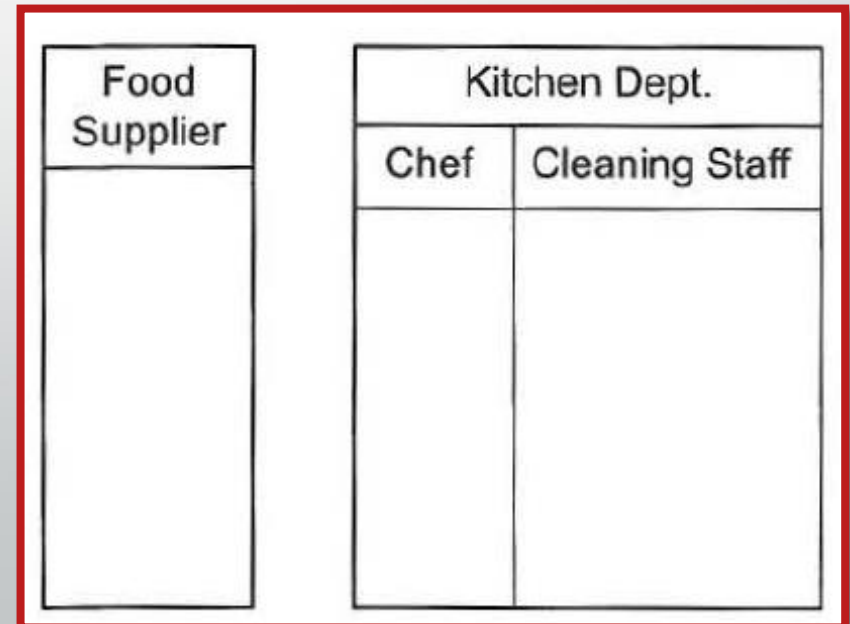Food Supplier | Kitchen Dept.

Swimlanes

- Participants are based on model scope
  - **From the organisation chart or use case model**
    - Company
    - Organisation units
    - Department
    - Branch
    - Actor
- All Business Process Diagrams (BPDs) **have at least one pool**
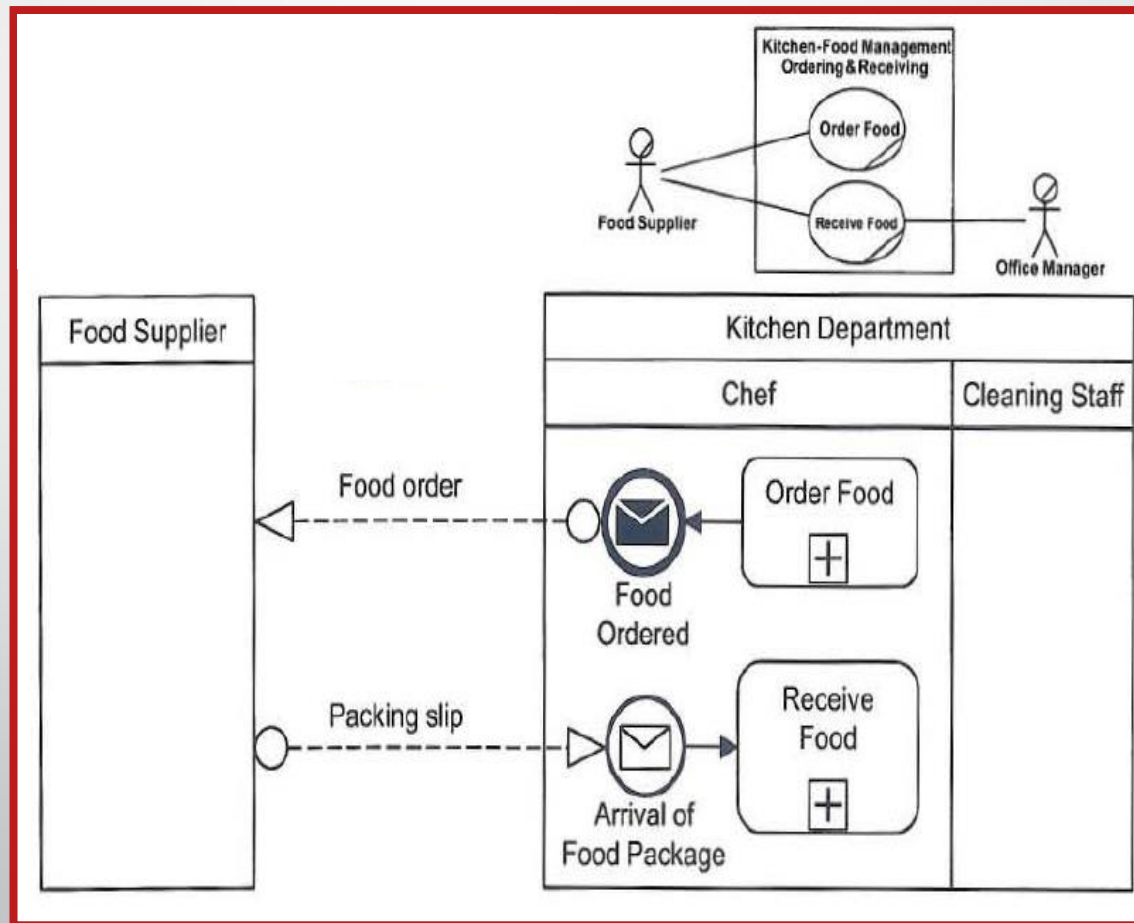 - It may not be visible

Lanes and Sequence Flow

- Lanes
  - **Represent actors within an organisation unit**
  - Sub-partitions within a pool
  - Extend the length of the pool
  - **Sequence flow can cross between lanes in the same pool**
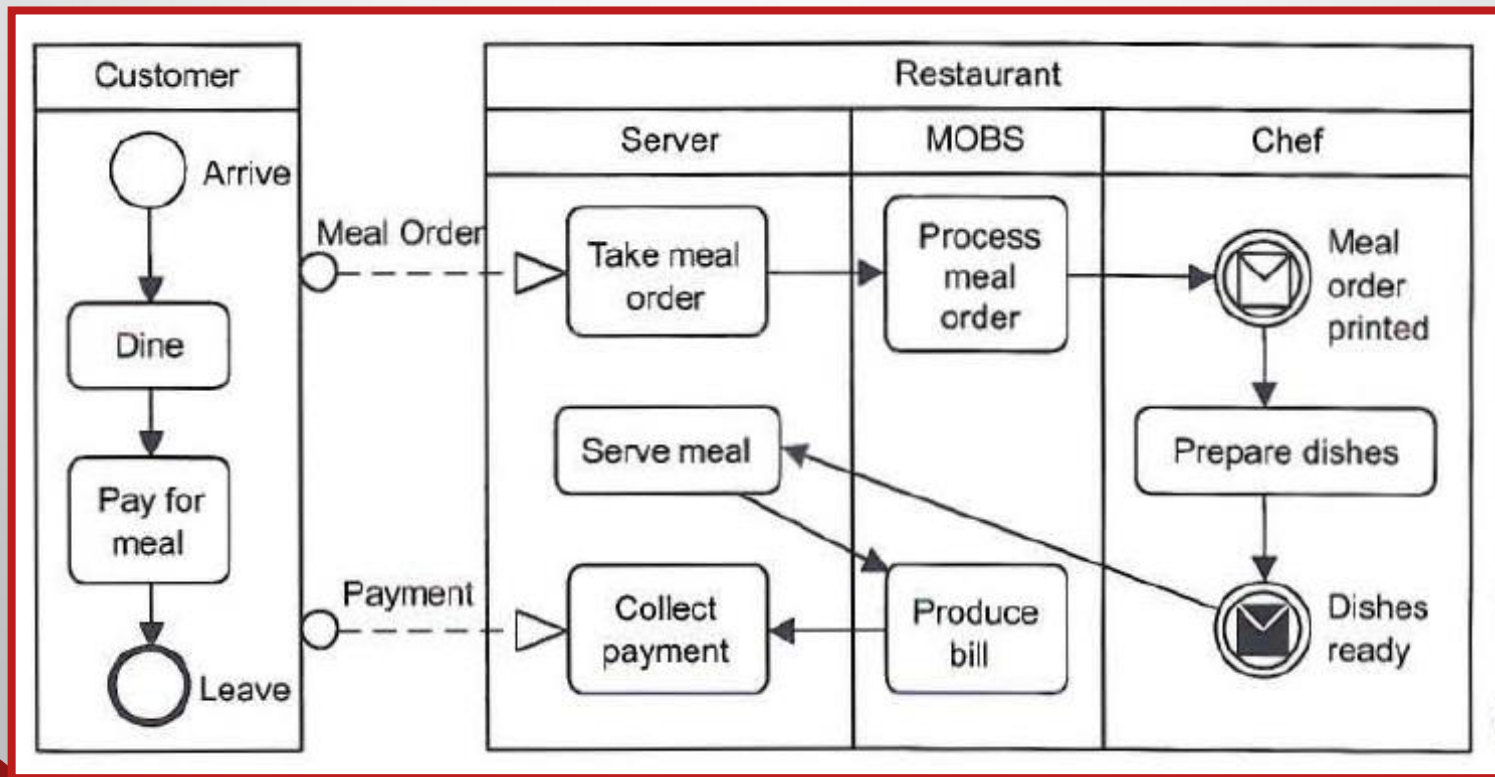
Message Flow

- **Messages cross between pools**
  - Connect to
    - Pools
    - Flow objects

Workflow Modelling Using Swim lanes

- **Swim lanes allow you to model workflow**
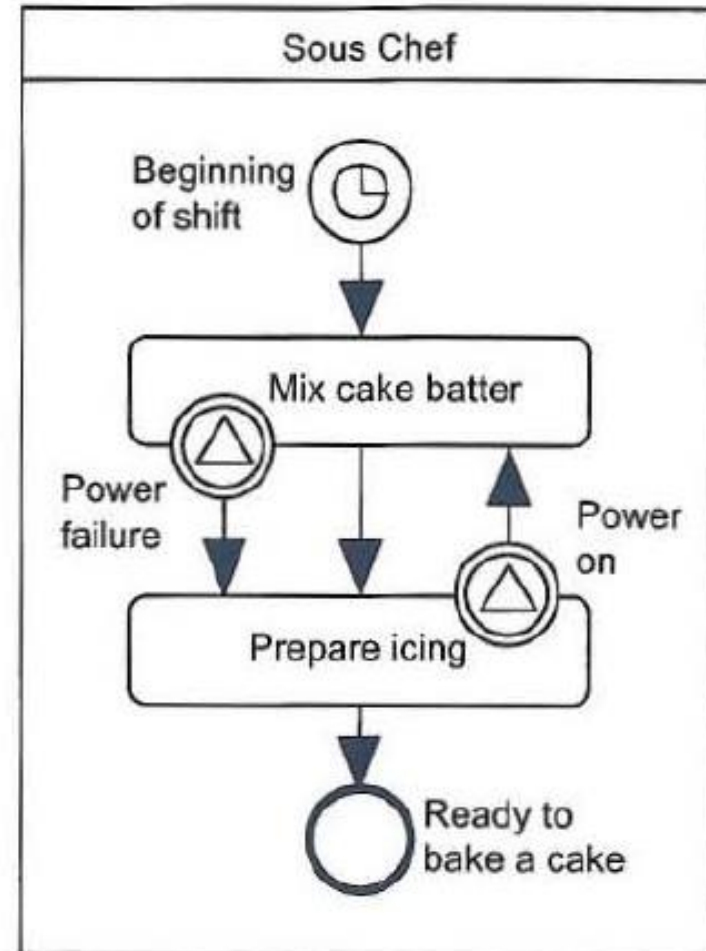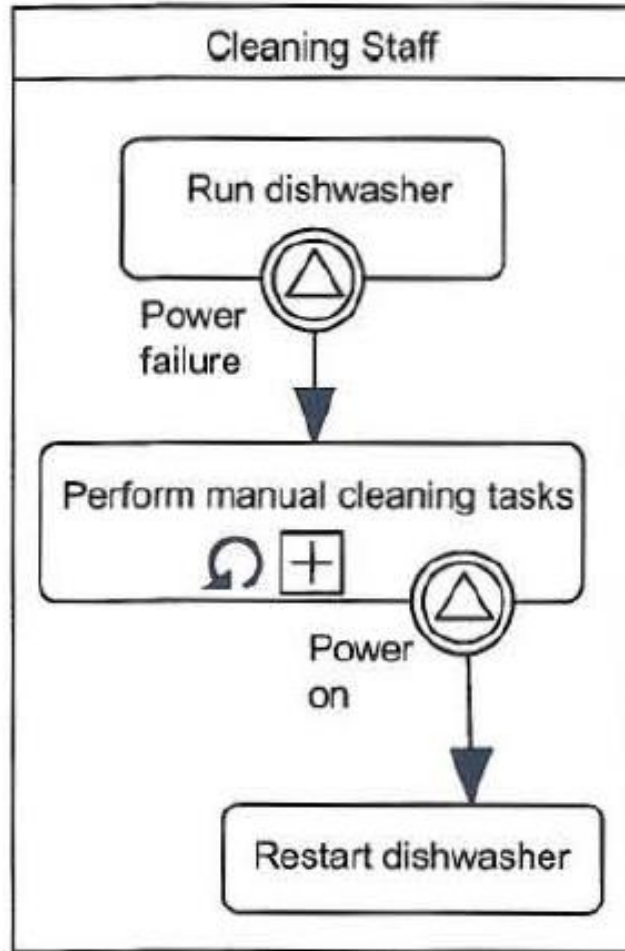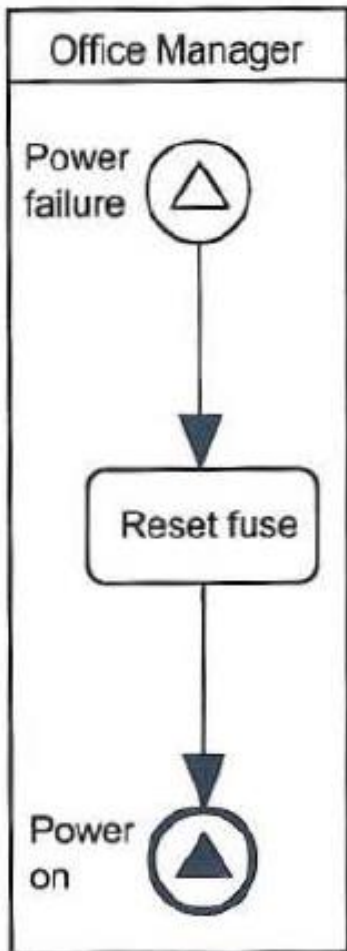- **Message flow is not allowed between lanes in the same pool**

Signal Events

- **A thrown signal event is broadcast to all signal catch events**
  - With the same name
  - In any process
    - At any level
    - In any pool
  - **Not targeted at a specific catch event like a message**
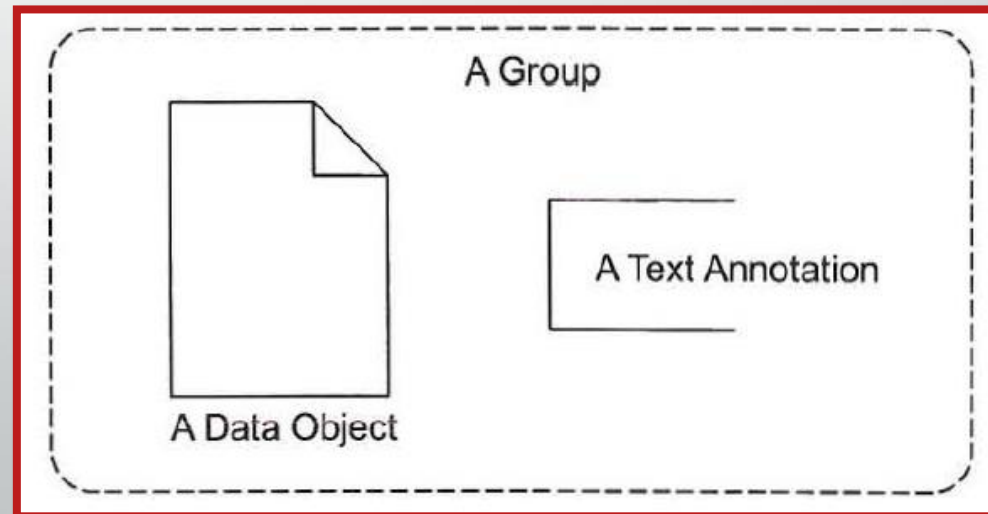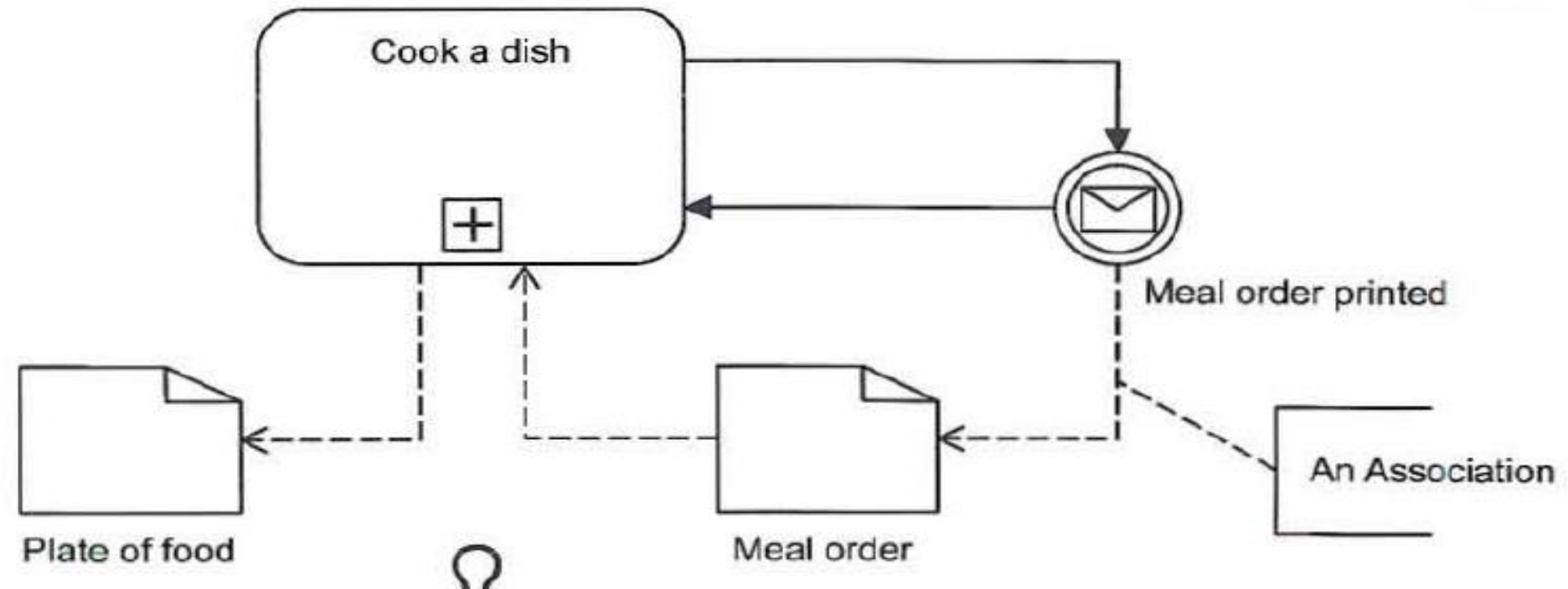
Signal Events

Artifacts

- **Artefacts provide additional information about the process**
  - Data objects
    - Information items or physical goods
  - Text annotation
    - Notes on the diagram
  - Groups
    - Categorize groups of objects

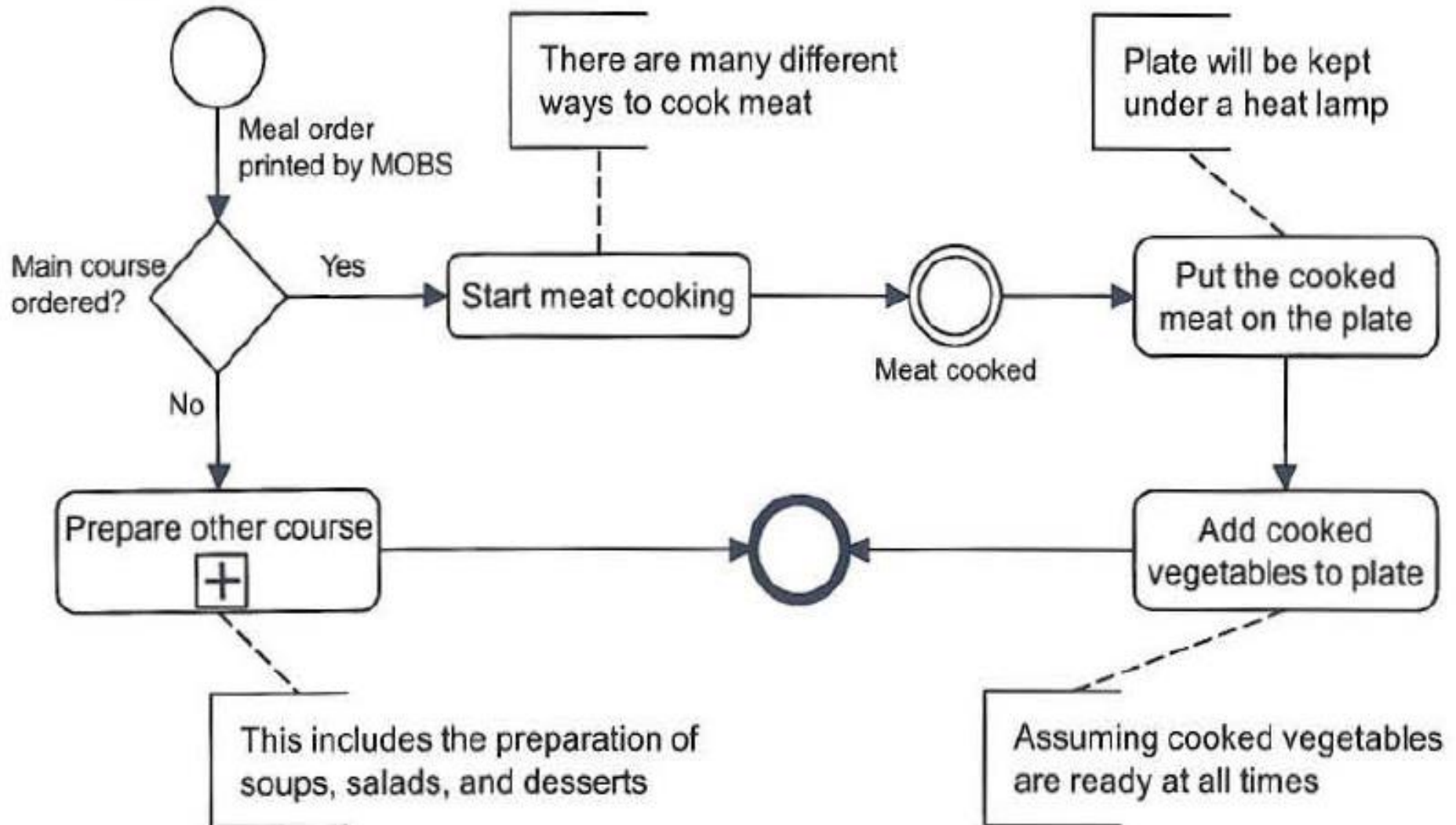# Data Objects and Associations

- Data objects are artefacts produced and/or used by flow objects

    - Connected to flow objects with associations

    - **Arrows indicate the direction of flow of the data or goods**

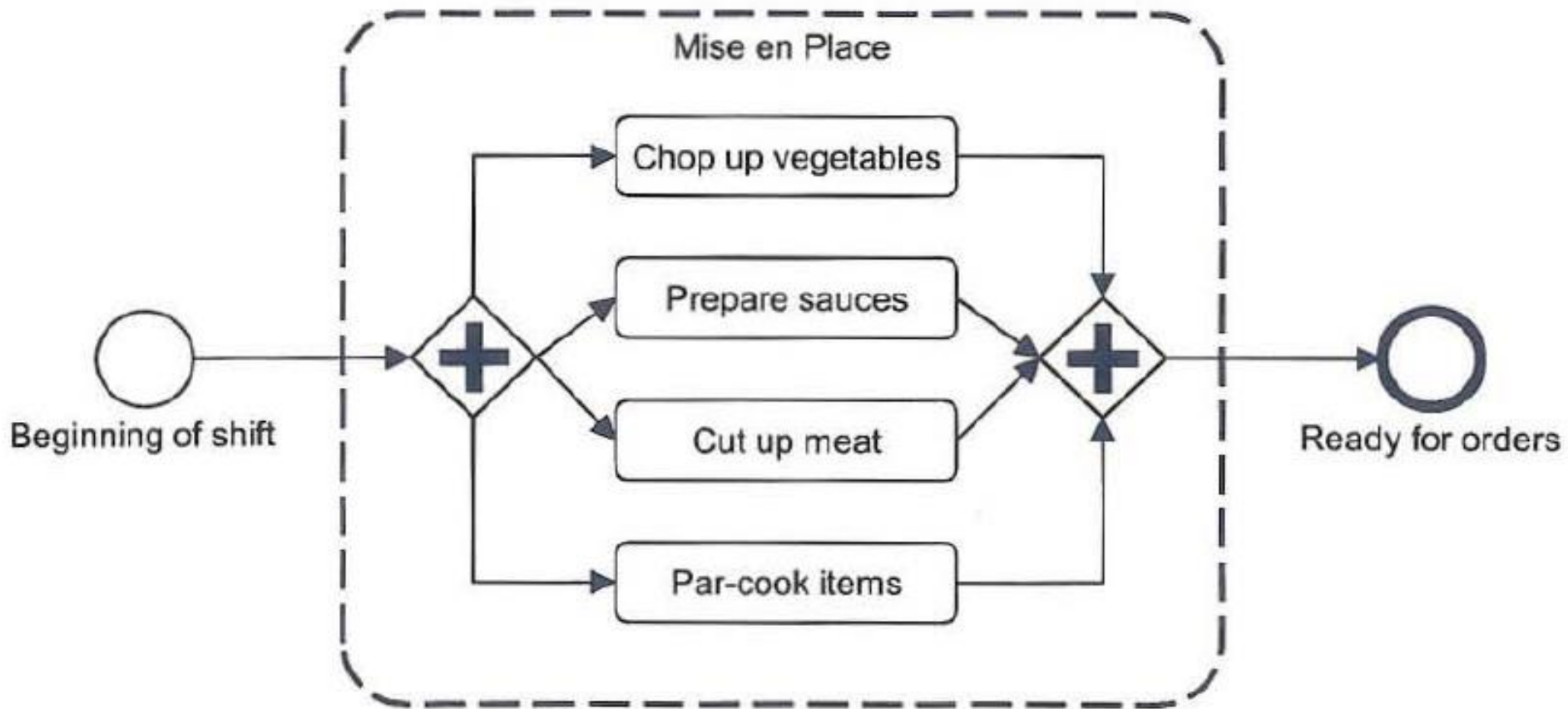# Text Annotations and Associations

- **Text annotations are artefacts that add information to your diagram**
  - Connected to flow objects with associations
  - Arrow heads are not needed

Text Annotations and Associations

Groups

- **Groups are artefacts that enclose elements that belong to the same category**

How to Create the Business Process Diagram

- To create the Business Process Diagram (BPD)
  - **Place a start and end event on the diagram**
  - **Put on the activities**
  - **Add branches**
  - **Rearrange events, activities, and branches into an approximate order**
  - **Connect them with sequence flows**
- Use paper, a white board, or a CASE tool
  - Whichever is easiest