Link 9.1 Explanation of Figure 9.5

Figure 9.5 shows the following business rules:

- o An *order* must be (black circle inside box) charged to one *invoice*.

- o An *invoice* may (white circle outside box) charge many *invoices* (N at the invoice end of the line).

- o A *course* must be (black circle inside box) charged by many *invoices* (that is, several invoices will be sent to charge the delegates of a specific course).

- o An *invoice* may (white circle outside box) charge one *course* (that is, only one course can be charged per invoice).

- o An *order line* must fulfil one *order* (that is, a line of an order can only exist if an order exists and a line of an order can only be a line of one order).

- o An *order* may have zero, one or many *order lines* (shown by the N).

- o An *order line* must specify one *product* (that is, each line of the order refers to one product).

- o A *product* can be (white circle outside box) specified on a number of *order lines* (that is, the organization is likely to have several orders for the same product but when a product is first launched there will be no orders for the product).