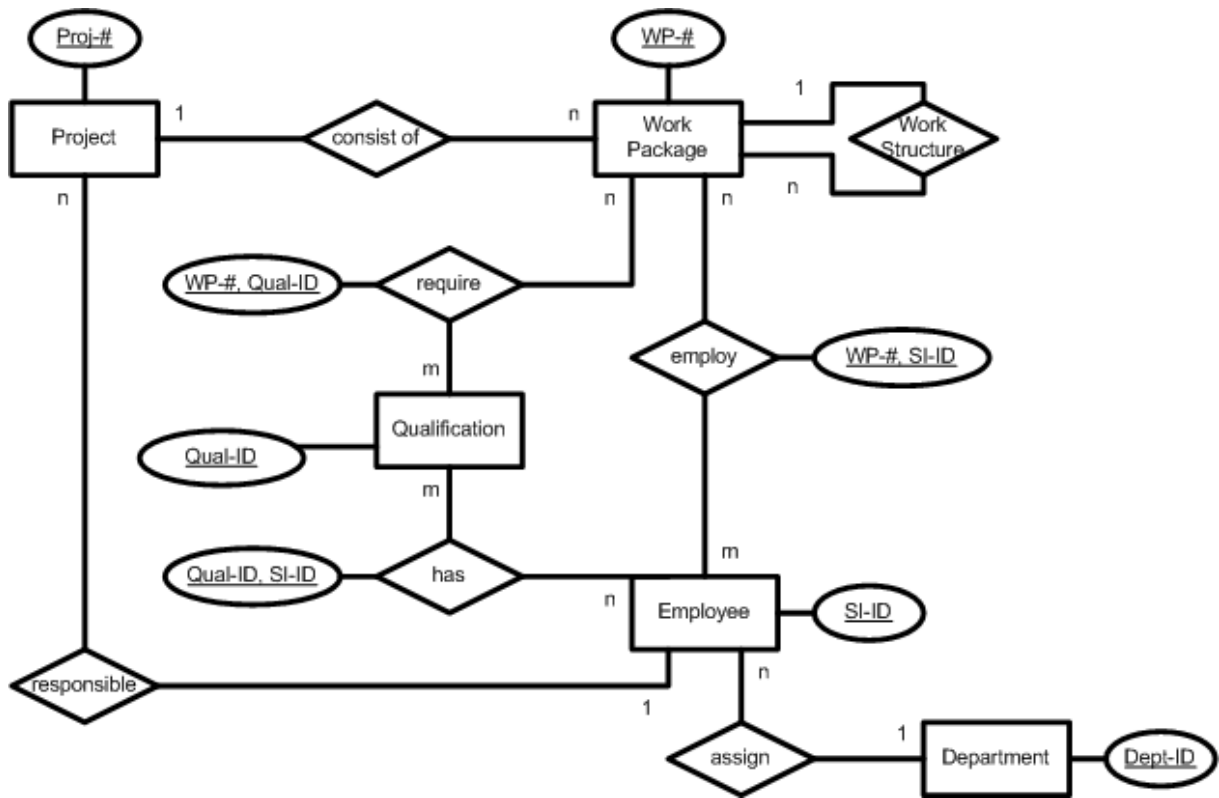


## **Project Management**

Source: [Hohe99], adapted by Farid El Masri, adjusted by Gerhard Pokorny

### **Transfer the following verbal description into an ERM:**

- a) A project (Proj-#) consists of several work packages (WP-#).
- b) Work packages are structured into a hierarchical work breakdown structure, whereby a work package can be subdivided into several further work packages, while each work package is subordinated to exactly one work package.
- c) One or more employees (SI-ID) are assigned to each work package, whereby employees can also be employed in several work packages. Employees have certain qualifications (Qual-ID) and are uniquely assigned to departments (Dept-ID).
- d) A work package can require one or more qualification.
- e) Each project has an employee as a responsible person; however an employee can also have responsibility for several projects.



Project

<u>Proj-#</u>	SI-ID	...

Employee

<u>SI-ID</u>	Dept-ID	...

Work Package

<u>WP-#</u>	HWP-#	Proj-#	...

Department

<u>Dept-ID</u>	...

employ

<u>WP-#</u>	<u>SI-ID</u>	...

require

<u>WP-#</u>	<u>Qual-ID</u>	...

has

<u>Qual-ID</u>	<u>SI-ID</u>	...

Qualification

<u>Qual-ID</u>	...