

## Case study 2

### Transfer of production of printed circuit boards to Signa /Cz

**Situation:** Martin GmbH, Berlin wants to outsource the production and test of printed circuit boards (PCB) for the product program of Martin GmbH to Signa.

Martin has a program of 40 different PCB`s with yearly volume from 50 units/ year to 10 000 units/year.

The make or buy-analysis was done and the management decision was to outsource the production of PCB`s to Signa.

**Signa:** Specialized company for the production of PCB`s and test of PCB`s  
ATEX approved and certified ISO 9001:2000

State of the art insertion and test machines (SMD devices etc)

3 shifts operation

Spray coating equipment for PCB`s

50 employees, engineering department for PCB layouts

CAD –system in use

Test adapters and test programs made by Signa

**Tasks:** The operations manager of the Martin GmbH has installed a team to manage the transfer.

Team members are engineers of R&D, Industrial Engineering, Production, Cost Accounting, Production Control and Purchase Department

1. Create a team chart for this team
2. Which product documentations are needed for the transfer?
3. Define the potential steps for the transfer
4. Define a milestone plan for the transfer
5. Transfer of special equipment and fixtures to Signa