

Demand analysis for professional job training centres

Project

Analysis of the future demand of workshops at professional job training centres for the construction industry

Client:
Federal Institute for Vocational Education and Training (BIBB)

Design Data

Planning area:
New Laender and Berlin

Period of work:
February to June 1998

Services

Data evaluation
Definition of parameters
Calculation of work shop demand
Survey
Nominal/actual value ratio

Model simulations, were based on an evaluation of population rates and educational records as well as on figures, provided by the building industry. Different prognoses of economic development and employment trends were analysed to estimate the number of job training entrants. Afterwards parameter, specifying demand, were determined to differentiate between a long and a medium term approach.

Calculation parameter:

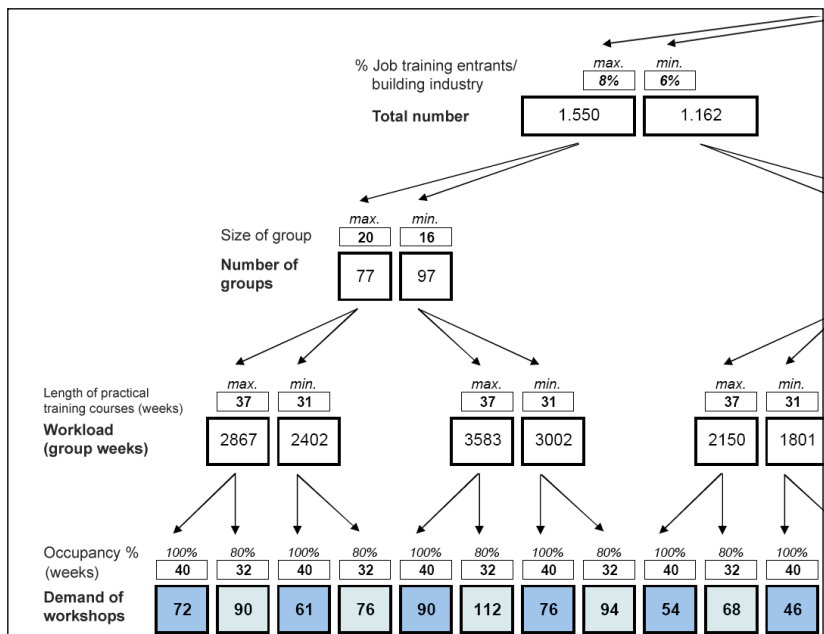
- Age-group (%-share of 16 to 18 years old)
- Rate of changeover to professional training centres
- Rate of jobs that require training in the building industry
- Length of practical training courses at professional training centres
- Size of group per course
- Maximal space occupancy period of workshops in weeks/year

The following formula for the calculation of the demand of workshops was developed to determine the number of workshops in relation to carrying out practical training courses:

$$\frac{\text{Groups} \times \text{duration of the course (weeks/y)}}{\text{Maximal Occupancy (group weeks/y)}}$$

Calculations were carried out on a national level. By comparing the results to the number of existing workshops the need of apprenticeship training positions could be determined.

The survey ended with recommendations to optimise specific locations.



Excerpt from the minimum/maximum calculation of the demand of workshops