

PlanningAI: Staffing planning in daycare centers



The Planning Challenge

- **Efficiency:** High, individual planning effort for staff deployment; personnel resources are not optimally utilized.
- **Flexibility:** Demand and workload change throughout the day and can vary daily.
- **Legal certainty:** High quality and compliance requirements (e.g., occupational safety, childcare legislation, qualification requirements).
- **Bottlenecks:** Staff shortages and peak periods (illness, vacation).
- **Knowledge monopoly:** Dependency, risk of errors, and inefficiency with manual shift planning by a key person.



The Planning Solution

- Individual algorithms based on specific rules for creating a perfectly tailored duty roster
- Short-term changes to the duty roster are possible, e.g., in the event of increased demand or short-term staff shortages
- Detailed planning accurate to 15 minutes, specific grid for peaks (instead of a rough shift system)
- Person-centered duty scheduling possible
- Automated planning (PlanningAI)

Project Example

Company: Childcare Center
Desktop Australia

Duration: 3 months

Project team:
Managing director, technical
contact person

Collaboration:
14-day agile sprints, coordination
meetings + milestones

Result:
Customized solution, integration
into existing technical platform

Contact
OptaZEN GmbH





Staffing Planning with PlanningAI

Application Options

Logistics centers / Parcel and courier services

- High peaks at specific cut-off times (truck departures, evening business)
- Packing and sorting staff are ramped up in 15-minute intervals

Healthcare / Private nursing homes

- Requirements vary depending on the daily routine, e.g., meals, medication administration, evening routine
- High quality standards and legal requirements

Airport / Passenger transport

- Specific terminal planning
- Relevant positions must be permanently filled or reinforced
- Complex and extensive planning necessary

Private security services

- Deployment follows event times
- Peak times in buildings or terminals
- Security specifications and high quality requirements

Hospitality / Catering

- Highly fluctuating capacity utilization depending on time of day, weather, events
- Precise staffing requirements for reception, kitchen, service
- Significant shortage of skilled workers

Leisure facilities / Amusement parks

- **Visitor numbers fluctuate (weather, season, time of day)**
- **Employees in customer service, security, and catering can be deployed flexibly**

Contact us for your optimal staff planning with PlanningAI.