

1. Project management (effecton Consulting GmbH)

1.1. Product development

In the automobile industry, product development includes all activities concerning functional and on time display and customer-specific delivery release of a vehicle component. All important details are specified in a specification sheet of the relevant development zone. Among the diverse requests and tasks to be met in product development include the following:

- Functional requirements of development which are described in a construction specification
- Requirements in respect of the development of the entire vehicle, such as the screw joints and their tolerance or criteria for fulfilling personal safety (from crash tests)
- Design requirements, such as shape, surface, colour, look, feel etc
- Quality requirements such as function fulfilment, dimensional accuracy, look, process security in production etc
- Logistical requirements such as storage capacity or ensuring production capacity

For fulfilling these tasks, the following activities and measures are an example of what is performed by effecton Consulting GmbH during the entire development phase:

- On time development of CAD Data, coordination and forwarding to customers
- Checking and documentation of the part components during the development phase
- On time commissioning and schedule tracking of tools and operating equipment
- Controlling and minimization of project costs
- On time order and procurement of purchase parts and related materials
- On time construction and provision of samples for the clients
- Participation in installation attempts in the entire vehicle (e.g. cubing) and implementation of resulting measures (for the modification and optimization of components)
- On time manufacture and delivery of pre-series and pilot series production volumes
- Creation of all necessary documents and material for quality sampling of the parts
- Monitoring of the data input for the initial sample test report (ISTR)

The successful handling of such complex projects is carried out by effecton consulting GmbH in the form of a structured approach and project organisation. This includes:

- Compiling and releasing project resources and appointment of project members
- Developing a project organization chart with designation of responsibilities
- Monitoring all activities and deadlines in the form of an activities timetable
- Regular communication and exchange of ideas within the group
- On time presentation to the client and release by the client

1.2. Logistics projects

1.2.1. Production relocation

Relocations of individual production volumes to other production sites each pose an individual challenge in terms of maintaining overall production. They require a prior thorough analysis of the IST process and must be planned and carried out in detail. This includes tasks such as:

- Planning and production of the flow volumes for the period of interruption of production
- Development and procurement of replacement packaging and advance production
- Procurement of sufficient primary materials for advance production to be performed
- Preparation and transfer of all necessary production documents and parameters for the new production site
- Introduction of monitoring of training measures (quality and process)
- Planning of relocation volumes and order of removal trucks for the material to be moved
- Planning and order of trucks (for example heavy loads) for machines and heavy tools
- Ensuring secure booking processes during the move

effecton Consulting GmbH has already successfully implemented various relocation projects and can take on the entire project management for its clients.

1.2.2. New-type projects

In new-type projects, it is not only the new production processes that are to be customized with the new product. The complete supply and disposal processes of the manufacturing plants (internal and external) are also to be redesigned taking into consideration the new material, information and value flows, which include more specifically the following scope of work :

- Planning of input factors (building space, personnel etc) and processes for the new product
- Cost planning and controlling for the logistics volumes in the project
- Planning, development and procurement of containers and packaging (load carriers) for the new product
- Planning, development and procurement of operating equipment (for example shelves, order picking systems, handling aids etc) for the new product
- Creation of master data into the ERP and storage systems being used
- Compiling and updating logistical framework information and quantity structures from the various development systems
- Logistic costs calculation and establishment of cost-optimal and secure logistics concepts
- Support of the purchasing department in the plausibility of logistics costs incurred by our suppliers
- Creation of detailed logistical specification sheets for individual components
- Detailed planning and design of the logistics concept (internal and external) and establishing the delivery form (if necessary including delivery cycles and volumes)
- Deallocation of the material allocation zones (interface between production and logistics), together with the production for presenting optimal production and logistic processes.

effecton Consulting GmbH looks after all necessary topics in this area on behalf of its customers, thus ensuring a smooth production launch of new products.