

TASK FOR A RESEARCH PROJECT

## DEFINING RESPONSIBILITIES IN THE TOLERANCING PROCESS

The management of geometric tolerances is a company-wide challenge, as information related to them must be exchanged throughout the entire product development process. Consequently, various tasks and processes need to be identified that contribute to the handling of geometric tolerances. These include the initial definition and optimization of tolerances, the derivation of manufacturing-related instructions (manufacturing-oriented tolerancing), and the derivation of measuring instructions. Due to the interdisciplinary nature of these tasks and related information flows, the respective departments are involved in different ways. Resulting responsibilities can be assigned, for example, according to the RACI matrix method (Responsible, Accountable, Consulted, Informed). Against this background, the aim of the work is to identify key tasks and processes in handling geometric tolerances (based on ISO GPS) as well as potentially involved departments or experts and to structure them in an appropriate responsibility matrix.

RACI CHART EXAMPLE							
Project tasks	Senior Analyst	Project Manager	Head of Design	DVP Finance	SEO Lead	Sales Director	Senior Management
Phase 1: Research							
Econometric model	R	I	I	A	C	I	I
Strategic framework	A	I	I	R	I	I	C
Risk factors	R	I	I	A	I	I	I
Phase 2: Structure							
Product specs	I	A	R	I	C	C	C
Design wireframe	I	C	R	I	C	I	C
User journey	I	C	R	I	C	C	C
User experience testing	I	C	R	I	C	C	C
Evaluation framework	I	R	C	I	C	I	C
Development backlog	I	R	C	I	C	I	C
Delivery roadmap	C	R	A	C	C	C	I

Quelle: <https://www.forbes.com/advisor/>

### TASKS:

- Research on forms of responsibility matrices
- Compilation of tasks in geometric tolerance management
- Selection and implementation of a suitable matrix form (RACI, RASCI, CARS, etc.) for the compiled tasks
- Compilation of findings and development of an outlook