

	Values of Requirement RVnc ↓ for Procedures (n)*																		Values of Competence Cnc ↓ Procedures (n)																																		
	Heuristic					Meta-Heuristic			Deterministic-exact			Stochastic / Dynamic Approaches			AI-based			Heuristic					Meta-Heuristic			Deterministic-exact			Stochastic / Dynamic Approaches			AI-based																					
Field of Competence (c)	Forward Scheduling	Backward Scheduling	Midpoint Scheduling	Kim et al. (2007)	Yu & Lee (2018)	Guo et al. (2023)	Chen & Gao (2020)	Luo et al. (2025)	Wang et al. (2024)	Vahedi-Nouri et al. (2025)	Darghouth and Abdel-Aal (2021)	Lage Junior & Filho (2017)	Li et al. (2021)	Fu et al. (2020)	Yazdanparast et al. (2025)	Lingitz et al. (2018)	Zhang et al. (2022)	Company-specific Competence Value (CVC) ↓	Forward Scheduling	Backward Scheduling	Midpoint Scheduling	Kim et al. (2007)	Yu & Lee (2018)	Guo et al. (2023)	Chen & Gao (2020)	Luo et al. (2025)	Wang et al. (2024)	Vahedi-Nouri et al. (2025)	Darghouth and Abdel-Aal (2021)	Lage Junior & Filho (2017)	Li et al. (2021)	Fu et al. (2020)	Yazdanparast et al. (2025)	Lingitz et al. (2018)	Zhang et al. (2022)																		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17																		
Skill Level of Employees	1	1	1	2	2	3	2	2	3	3	3	4	4	4	5	4	5	2	0	0	0	0	0	-1	0	0	-1	-1	-1	-2	-2	-2	-3	-2	-3																		
Technical Infrastructure	2	1	1	1	1	1	1	1	2	2	2	3	3	3	5	4	5	3	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-3	-2	-3																		
*Values are based on a literature evaluation (cf. General Evaluation of Competence for Procedure)																																	0	0	0	0	0	-1	0	0	-1	-1	-1	-3	-3	-3	-6	-4	-6	← Competence bar			