

Poka Yoke Example: IT/Software

Error Prevention in IT Operations (15 Cases)

#	Area	Process	Error Type	Principle	Device Type	Level	Poka Yoke Solution	Cost (EUR)	Errors Prev.
1	Development	Software Deployment	Configuration Error	Prevention	Software Validation	Level 3 - Physical Prevention	CI/CD pipeline blocks invalid configs	0	450
2	IT Infrastructure	Processing	Processing Error	Detection	Software Validation	Level 2 - Warning/Detection	Automated tests before deployment	0	280
3	Development	Documentation	Data Entry Error	Simplification	Checklists	Level 1 - Guidance/Hint	Code review checklist with mandatory items	0	180
4	Customer Service	Data Entry	Data Entry Error	Prevention	Software Validation	Level 3 - Physical Prevention	Input validation with regex patterns	500	1200
5	IT Infrastructure	Testing	Configuration Error	Detection	Software Validation	Level 2 - Warning/Detection	Infrastructure monitoring with alerts	2500	95
6	Development	Processing	Configuration Error	Prevention	Software Validation	Level 3 - Physical Prevention	Git hooks prevent commits without tests	0	340
7	IT Infrastructure	Software Deployment	Sequence Error	Prevention	Software Validation	Level 3 - Physical Prevention	Deployment pipeline enforces stage sequence	0	220
8	Development	Documentation	Data Entry Error	Simplification	Software Validation	Level 2 - Warning/Detection	IDE auto-complete reduces typos	0	890
9	Customer Service	Data Entry	Unauthorized Access	Prevention	Interlocks	Level 3 - Physical Prevention	MFA + Role-based access (RBAC)	1500	25
10	IT Infrastructure	Testing	Processing Error	Detection	Software Validation	Level 2 - Warning/Detection	Automated security scanning	3500	45
11	Development	Software Deployment	Configuration Error	Prevention	Software Validation	Level 3 - Physical Prevention	Infrastructure-as-Code prevents manual changes	0	145
12	IT Infrastructure	Testing	Processing Error	Detection	Software Validation	Level 2 - Warning/Detection	CI/CD pipeline blocks on missing unit tests	0	280
13	Development	Documentation	Data Entry Error	Simplification	Checklists	Level 1 - Guidance/Hint	Pull request template with mandatory fields	0	95
14	IT Infrastructure	Inspection	Configuration Error	Detection	Software Validation	Level 2 - Warning/Detection	Linter checks code quality before commit	0	520
15	Customer Service	Data Entry	Unauthorized Access	Prevention	Interlocks	Level 3 - Physical Prevention	MFA + Role-based access control (RBAC)	2500	12

NOTE: This example is based on fictional data and is for educational purposes only. Any resemblance to actual companies, persons, or events is purely coincidental.