

# SEC and ISO 21500:2012



Process groups (ISO 21500 Table 1)

	<i>Initiating</i>	<i>Planning</i>	<i>Implementing</i>	<i>Controlling</i>	<i>Closing</i>
<i>Integration</i>	Develop project charter <sup>1)</sup>	Develop project plan <sup>3)</sup>	Direct project work <sup>15)</sup>	Control project work <sup>21)</sup> Control changes <sup>22)</sup>	Close project phase or project Collect lessons learned <sup>32)</sup>
<i>Stakeholder</i>	Identify stakeholders <sup>2)</sup>		Manage stakeholders <sup>16)</sup>		
<i>Scope</i>		Define scope <sup>4)</sup> Create WBS <sup>5)</sup> Define activities <sup>6)</sup>		Control scope <sup>23)</sup>	
<i>Resource</i>	Establish project team	Estimate resources Define project organisation	Develop project team <sup>17)</sup>	Control resources <sup>24)</sup> Manage project team <sup>25)</sup>	
<i>Time</i>		Sequence activities <sup>7)</sup> Estimate activity duration <sup>8)</sup> Develop schedule <sup>9)</sup>		Control schedule <sup>26)</sup>	
<i>Cost</i>		Estimate costs <sup>10)</sup> Develop budget <sup>11)</sup>		Control costs <sup>27)</sup>	
<i>Risk</i>		Identify risks Assess risks	Treat risks <sup>18)</sup>	Control risks <sup>28)</sup>	
<i>Quality</i>		Plan quality <sup>12)</sup>	Perform quality assurance <sup>19)</sup>	Perform quality control <sup>29)</sup>	
<i>Procurement</i>		Plan procurement <sup>13)</sup>	Select suppliers	Administer procurements <sup>30)</sup>	
<i>Communication</i>		Plan communications <sup>14)</sup>	Distribute information <sup>20)</sup>	Manage communications <sup>31)</sup>	

Subject groups

Direct impact

Indirect impact

No impact

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## Notes:

- 1.) Definition of the project scope is aided by clear and early identification of systems and requirements from other projects.
- 2.) Identification of stakeholders is a key element in the SEC.
- 3.) The project plan is directly shaped by the activities of the SEC.
- 4.) The definition of scope is supported by the system architecture/breakdown, which is a part of the SEC.
- 5.) Creation of WBS is supported by the system architecture/breakdown, which is a part of the SEC.
- 6.) Definition of technical activities in the design is supported by the spiral model, which is a part of the SEC.
- 7.) Sequence activities is defined by the matureness of the design handled by the spiral model in the SEC.
- 8.) Estimate activity duration is supported by the clear stepwise development by the Levels of Information method.
- 9.) Development of schedule finds support in the spiral model and the Levels of Information method.
- 10.) Estimation of cost is supported by the system breakdown, which is a part of the SEC.
- 11.) Develop budget is supported by the system breakdown, which is an essential part of the SEC.
- 12.) Planning the quality is a key factor, and is made clear as requirements are handled in an agile manner by the SEC.
- 13.) Planning the procurement is supported by the clear overview made by the system breakdown.
- 14.) Planning the communication can benefit from the system breakdown which makes the communication structured.
- 15.) Direct project work is supported by the clear system architecture and focus on requirements in the system design template.
- 16.) Managing of stakeholders is an integral part of the SEC concept.
- 17.) Development of the project team is supported by the common language achieved by the SEC.
- 18.) Treatment of technical risks is made clear by the stepwise agile progress in the spiral model in the SEC.
- 19.) The performance of quality assurance is supported by the clear vision on requirements, handled by the SEC model.
- 20.) Distribution of information is made well-arranged by the division of the design into systems and system elements.
- 21.) The control of project work for managers is supported by the way SEC allows a clear and fast monitoring of essential parameters.
- 22.) The control of changes is an integral part of the SEC concept. The spiral model and the agile process is designed to handle this subject.
- 23.) Control of the technical scope is an integral part of the SEC concept.
- 24.) Control of resources can be balanced as the common language is implemented and understood by the employees.
- 25.) Managing of project teams becomes easy as the common language is understood by old and new members of the team.
- 26.) Controlling the schedule is an integral part of the SEC.
- 27.) Control of costs is made more clear, if costs are arranged in a mirror of the system breakdown made in the SEC.
- 28.) Agile identification technical risks becomes clear by using the SEC.
- 29.) Performing quality control is an integral part of the SEC.
- 30.) Administration of procurements is made more clear, when the system breakdown forms the spine in the budget.
- 31.) See 18.)
- 32.) Collection of lessons learned is made easy, as lessons always belongs to designed systems and should be stored accordingly.