**DIPLOMADO EN SOFTWARE EMBEBIDO**

**PROYECTO INTEGRADOR**

**SYS.1 Redacción de Requisitos**

**SYS.1.1 Administración de Riesgos**

* Project risks identified and prioritized
* Mechanism to track the risk
* Threshold criteria to identify when corrective action required
* Proposed ways to mitigate risks:
  + risk mitigator
  + work around
  + corrective actions activities/tasks
  + monitoring criteria
  + mechanisms to measure risk

**SYS.1.2 Mitigación de Riesgos**

* Planned risk treatment activities and tasks:
  + describes the specifics of the risk treatment selected for a risk or combination of risks found to be unacceptable
  + describes any difficulties that may be found in implementing the treatment
* Treatment schedule
* Treatment resources and their allocation
* Responsibilities and authority:
  + describes who is responsible for ensuring that the treatment is being implemented and their authority
* Treatment control measures:
  + defines the measures that will be used to evaluate the effectiveness of the risk treatment
* Treatment cost
* Interfaces among parties involved:
  + describes any coordination among stakeholders or with the project’s master plan that must occur for the treatment to be properly implemented
* Environment/infrastructure:
  + describes any environmental or infrastructure requirements or impacts (e.g., safety or security impacts that the treatment may have)
* Risk treatment plan change procedures and history

**SYS.1.3 Registro de Comunicación**

* All forms of interpersonal communication including:
  + letters
  + faxes
  + e-mails
  + voice recordings
  + podcast
  + blog
  + videos
  + forum
  + live chat
  + wikis

**SYS.1.4 Revisiones**

* Provides the context information about the review:
  + what was reviewed
  + lists reviewers who attended
  + status of the review
* Provides information about the coverage of the review:
  + check-lists
  + review criteria
  + requirements
  + compliance to standards
* Records information about:
  + the readiness for the review
  + preparation time spent for the review
  + time spent in the review
  + reviewers, roles and expertise
* Review findings:
  + non-conformances
  + improvement suggestions
* Identifies the required corrective actions:
  + risk identification
  + prioritized list of deviations and problems discovered
  + the actions, tasks to be performed to fix the problem
  + ownership for corrective action
  + status and target closure dates for identified problems

**SYS.1.5 Control de Cambios**

* Used as a mechanism to control change to baselined
* products/products in official project release libraries
* Record of the change requested and made to a baselined product (work products, software, customer documentation, etc.):
  + identification of system, documents impacted with change
  + identification of change requester
  + identification of party responsible for the change
  + identification of status of the change
* Linkage to associated customer requests, internal change requests, etc.
* Appropriate approvals
* Duplicate requests are identified and grouped

**SYS.1.6 Reporte de Análisis**

15-01 Analysis report

* What was analyzed?
* Who did the analysis?
* The analysis criteria used:
  + selection criteria or prioritization scheme used
  + decision criteria
  + quality criteria
* Records the results:
  + what was decided/selected
  + reason for the selection
  + assumptions made
  + potential risks
* Aspects of correctness to analyze include:
  + completeness
  + understandability
  + testability
  + verifiability
  + feasibility
  + validity
  + consistency
  + adequacy of content

17-03 Stakeholder Requirements

* Purpose/objectives defined
* Includes issues/requirements from (contract) reviews
* Identifies any:
  + time schedule/constraints
  + required feature and functional characteristics
  + necessary performance considerations/constraints
  + necessary internal/external interface considerations/constraints
  + required system characteristics/constraints
  + human engineering considerations/constraints
  + security considerations/constraints
  + environmental considerations/constraints
  + operational considerations/constraints
  + maintenance considerations/constraints
  + installation considerations/constraints
  + support considerations/constraints
  + design constraints
  + safety/reliability considerations/constraints
  + quality requirements/expectations

SYS.2 Análisis de Requisitos

SWE.1 Análisis de Requisitos

