Milestones by Work Package and Phase

For the nine (9) phases defined, here are the 42 recommended work package tasks and 146 recommended milestones for each phase.

Phase	Work Package Task	Milestones
1 - System Requirements Analysis	1 - SW engineering support for the SSS	1 – SSS Internal draft
		2 – Revision for preliminary SSS
	2 - SRR preparation & participation	3 – Prepare draft SRR data package
		4 – Internal review of draft SRR data package
		5 - SRR data pkg revised for CDRL submission
		6 – Conduct SRR
		7 – Respond to SRR action items
2 – System Design	3 - SW engineering support for the final SSS	8 – Start SSS updates
		9 – Complete SSS updates
	4 - SW engineering support for the SSDD	10 – Prepare draft SSDD input
		11 – Internal review of draft SSDD input
		12 – SSDD revised for CDRL submission
	5 - Software Architecture Definition	13 – Produce System Context Diagram
		14 – Define CSCI external interfaces
		15 – Generate external events list
		16 – State/mode allocation to CSCI capabilities
		17 – Determine CSCI capability IF
		18 – Establish CSCI SW development file
	6 - Preliminary SW requirements spec	19 – Prepare preliminary SRS input
		20 – Internal review of SRS input
		21 – Completion of preliminary SRS input

Phase	Work Package Task	Milestones
	7 - Preliminary SRS Production/delivery	22 – Integrate SRS inputs
		23 – Internal review of preliminary SRS
		24 – Publish preliminary SRS
		25 – Prepare preliminary IRS inputs
		26 – Internal review of preliminary IRS
		27 – Complete preliminary IRS input
	8 - Preliminary IRS Production & Delivery	28 – Integrate preliminary IRS inputs
		29 – Internal review of preliminary IRS
		30 – Publish Preliminary IRS
	9 - Software Development Plan	31 – Prepare SDP
		32 – Internal review of SDP
		33 – Publication of the SDP
	10 - System Design Review	34 – Prepare draft SDR material
		35 – Internal review of draft SDR material
		36 – Completion of SDR material
		37 – Publish SDR package
		38 – Conduct SDR
		39 – Work off SDR action items
3 - Software Rqmts Analysis	11 - Establish CSCI domains	40 – Create CSCI context diagram
		41 – Generate CSCI external events list
		42 – Generate CSCI state transition diagram
	12 - Conduct Software rqmts analysis	43 – Produce complete CSCI logical model
		44 – Complete requirements traceability matrix
	13 - Generate database model	45 – Produce complete database model

Phase	Work Package Task	Milestones
		46 – Complete requirements traceability
	14 - Finalize Software requirements	47 – Generate data dictionary
		48 – Produce complete transformation spec
	15 - Final SRS production & delivery	49 – Integrate SRS inputs
		50 – Internal review of final SRS
		51 – Publish final SRS
		52 – Integrate final IRS inputs
		53 – Internal review of final IRS
		54 – Publish final IRS
	16 - SSR preparation & conduct	55 – Prepare SSR materials
		56 – Internal review of SSR materials
		57 – Conduct the SSR
4 – Software Preliminary Design	17 - Define Computer Software Components	58 – Determine CSCI/CSC hierarchy
		59 – Produce CSC-level structure charts
		60 – Internal review of CSC structure charts
		61 – Establish CSC SW Development Files
	18 - External interface definition	62 – Identify message types
		63 – Define data fields that compose each msg
		64 – Internal review of message types
		65 – Complete message type definitions
	19 - Human machine interface definition	66 – Identify screens & displays
		67 – Internal review of screens & displays
		68 – Complete screen & display

Phase	Work Package Task	Milestones
		definitions
	20 - Preliminary Software Design Document (SDD) production & delivery	69 – Integrate design inputs into prelim SDD
		70 – Internal review of preliminary SDD
		71 – Publish preliminary SDD
	21 - Preliminary IF Design Document (IDD) Production & delivery	72 – Integrate design inputs into prelim IDD
		73 – Internal review of preliminary IDD
		74 – Publish preliminary IDD
	22 - Draft Software Test Plan	75 – Produce draft STP
		76 – Internal review of draft STP
	23 - Establish CSC I&T Test requirements	77 – Start CSC I&T test requirements
		78 – Complete CSC I&T test requirements
	24 - PDR preparation & conduct	79 – Prepare PDR material
		80 – Internal review of PDR material
		81 – Conduct PDR dry run
		82 – Conduct PDR
		83 – Respond to PDR action items
5 – Software Detailed Design	25 - Complete design	84 – Complete CSU level structure charts
		85 – Internal review of CSU structure
		86 – Complete PDL for each CSU
		87 – Internal review of CSU design
		88 – Establish CSU SW Development Files
	26 - Final SDD production & delivery	89 – Start integration of SDD inputs
		90 – Complete integration of SDD input

Phase	Work Package Task	Milestones
		91 – Internal review of SDD
		92 – Publication of SDD
	27 - Final IDD production & delivery	93 – Start integration of final IDD inputs
		94 – Complete integration of final IDD inputs
		95 – Internal review of IDD
		96 – Publication of final IDD
	28 – Software test documentation	97 – Integrate final inputs for the STP
		98 – Internal review of final STP
		99 – Publication of final STP
		100 – Produce draft STDs
		101 – Internal review of draft STDs
	29 – CSC I&T planning	102 – Establish CSC test responsibilities
		103 – Produce CSC test cases
		104 – Produce CSC test schedules
	30 – CSU test planning	105 – Establish CSU test responsibilities
		106 – Produce CSU test cases
		107 – Produce CSU test schedules
	31 – CDR preparation & conduct	108 – Prepare CDR material
		109 – Internal review of CDR material
		110 – Conduct CDR dry run
		111 – Conduct CDR
		112 – Respond to CDR action items
6 – Coding & CSU testing	32 – CSU code & CSU testing	113 – Code CSUs
		114 – Produce Unit test plan for CSU
		115 – Produce code inspection

Phase	Work Package Task	Milestones
		package
		116 – Conduct code inspection
		117 – Perform CSU testing
		118 – Produce Unit test inspection package
		119 – Conduct Unit test inspection
		120 – Submit CSU material for config mgmt
	33 – CSCI integration plan	121 – Start CSCI integration plan
		122 – Complete CSCI integration plan
	34 – CSC test procedures	123 – Start CSC I&T procedures
		124 – Complete CSC I&T procedures
7 – CSC I&T	35 – Functional string testing	125 – Build string executable
		126 – Start string testing
		127 – Complete string testing
		128 – Resolve problems & retest as required
		129 – Document string test results for the TRR
	36 – SW Test descriptions/procedures	130 – Start SW test descriptions & procedures
		131 – Complete test descriptions & procedures
	37 – Test readiness review preparation and conduct	132 – Integrate string test data into TRR pkg
		133 – Conduct the TRR
		134 – Respond to TRR action items
		135 – Enter CSCI code into product baseline
8 – CSCI Testing	38 – CSCI testing support	136 – None (LOE task)
	39 – FCA/PCA support	137 – None (LOE task)
	40 – Product baseline documentation	138 – Update/produce documents (SDD, IDD, SPS, VDD)
		139 – Internal review of documents

Phase	Work Package Task	Milestones
		140 – Correct per review and submit to CM
	41 – O&M Documentation Support	141 – Start documentation (User's Manual, Maintenance Manual)
		142 – Complete draft
		143 – Internal review of draft
		144 – Update draft based on comment review
		145 – Produce documents and submit to CM
9 – System I&T	42 – System I&T	146 – None (LOE task)