

Activity /	Resource	Resource ...	Qty	Work	-% Qty	+% Qty	Min Qua...	Max Qua...	Min Work	Max Work
Assess Annual Fuel Calcs	L-Journeym...	LABOR	1	10	50	100	0.5	2	5	20
Assess Annual Fuel Calcs	L-Senior	LABOR	1	10	50	100	0.5	2	5	20
Assess (Low-fidelity) Topside Arrangement (2D inputs)	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Assess (Low-fidelity) Topside Arrangement (2D inputs)	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Assess AIREX Vulnerability	L-Junior	LABOR	0.5	10	0	40	0.5	0.7	10	14
Assess AIREX Vulnerability	L-Journeym...	LABOR	0.5	10	0	40	0.5	0.7	10	14
Assess AIREX Vulnerability	L-Senior	LABOR	0.1	2	0	50	0.1	0.15	2	3
Assess Access & Flow (pers, stores, ammo, maint, equipment removal, etc)	L-Senior	LABOR	1	2.5	0	0	1	1	2.5	2.5
Assess Access & Flow (pers, stores, ammo, maint, equipment removal, etc)	L-Journeym...	LABOR	1	2.5	0	0	1	1	2.5	2.5
Assess Accoustic Signature	L-Journeym...	LABOR	1	6	0	20	1	1.2	6	7.2
Assess Accoustic Signature	L-Senior	LABOR	0.1	0.6	0	0	0.1	0.1	0.6	0.6
Assess Accoustic Signature	T?-Target ...		1	6	0	0	1	1	6	6
Assess Accoustic Signature	T?-Radiate...		1	6	0	0	1	1	6	6
Assess Accoustic Signature	L-Junior	LABOR	1	6	0	20	1	1.2	6	7.2
Assess Aircraft Flight Environment	L-Senior	LABOR	1	10	0	0	1	1	10	10
Assess Aircraft Landing & Comm Aids	L-Journeym...	LABOR	1	4	0	0	1	1	4	4
Assess Aircraft Maintenance Facilities	L-Senior	LABOR	1	3	0	0	1	1	3	3
Assess Alternative Auxillary Systems with Trade Off Studies	T-CAD	TOOL	24	120	0	0	24	24	120	120
Assess Alternative Auxillary Systems with Trade Off Studies	L-Junior	LABOR	24	120	0	0	24	24	120	120
Assess Alternative Electrical Systems with Trade Off Studies	L-Junior	LABOR	1	5	0	0	1	1	5	5
Assess Alternative Electrical Systems with Trade Off Studies	T-Elec Sys ...	TOOL	1	5	0	0	1	1	5	5
Assess Alternative Electrical Systems with Trade Off Studies	L-Senior	LABOR	0.25	1.25	0	0	0.25	0.25	1.25	1.25
Assess Alternative Propulsion Systems	L-Senior	LABOR	1	1	0	0	1	1	1	1
Assess Alternative Propulsion Systems	L-Junior	LABOR	1	1	0	0	1	1	1	1
Assess Anchoring, Mooring, & Towing Systems	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Assess Anchoring, Mooring, & Towing Systems	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Assess Auxiliary Systems	L-Junior	LABOR	24	120	0	0	24	24	120	120
Assess Auxiliary Systems	L-Journeym...	LABOR	8	40	0	0	8	8	40	40
Assess Auxiliary Systems	T-SIMSMART	TOOL	24	120	0	0	24	24	120	120
Assess Blast	T-VIVA	TOOL	1	3	0	0	1	1	3	3
Assess Blast	L-Senior	LABOR	0.05	0.15	0	100	0.05	0.1	0.15	0.3
Assess Blast	L-Junior	LABOR	0.4	1.2	0	87.5	0.4	0.75	1.2	2.25
Assess Blast	L-Journeym...	LABOR	0.5	1.5	0	20	0.5	0.6	1.5	1.8
Assess Boat, Unmanned Vehicle & Towed Body Systems	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Assess Boat, Unmanned Vehicle & Towed Body Systems	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Assess CBR Protection	T-CFX	TOOL	1	5	0	0	1	1	5	5
Assess CBR Protection	T-CONTAM	TOOL	1	5	0	0	1	1	5	5
Assess CBR Protection	L-Journeym...	LABOR	1	5	0	0	1	1	5	5
Assess Crew Requirement (Manpower and Personel) Based on Installed Syste...	L-Journeym...	LABOR	0.5	3.5	40	60	0.3	0.8	2.1	5.6
Assess Damage Control, Fire Fighting and Recoverability	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Assess Design Changes and Performance Impacts to C4ISR	L-Senior	LABOR	0.1	1.5	0	0	0.1	0.1	1.5	1.5
Assess Design Changes and Performance Impacts to C4ISR	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Assess Design Changes and Performance Impacts to Combat Systems	L-Senior	LABOR	0.1	1.5	0	0	0.1	0.1	1.5	1.5
Assess Design Changes and Performance Impacts to Combat Systems	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Assess Dynamic Intact Stability	L-Senior	LABOR	1	1	0	0	1	1	1	1
Assess Electical Systems	L-Junior	LABOR	1	5	0	0	1	1	5	5
Assess Electical Systems	L-Journeym...	LABOR	1	5	0	0	1	1	5	5
Assess Electical Systems	T-Elec Sys ...	TOOL	1	5	0	0	1	1	5	5
Assess Electical Systems	L-Senior	LABOR	0.25	1.25	0	0	0.25	0.25	1.25	1.25
Assess Electric Power RM&A	L-Senior	LABOR	2	20	50	100	1	4	10	40
Assess Electric Power RM&A	T-Elec Sys ...	TOOL	1	10	0	0	1	1	10	10
Assess ElectroMagnetic Compatibility	L-Senior	LABOR	0.1	1.5	0	0	0.1	0.1	1.5	1.5
Assess ElectroMagnetic Compatibility	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Assess Endurance Fuel Calculations	L-Senior	LABOR	1	20	50	100	0.5	2	10	40
Assess Endurance Fuel Calculations	L-Junior	LABOR	1	20	50	100	0.5	2	10	40
Assess Fan Rooms	L-Senior	LABOR	1	1	0	0	1	1	1	1
Assess Flow Field of Hull	L-Journeym...	LABOR	1	7.5	0	100	1	2	7.5	15
Assess Flow Field of Hull	T-DAS BOOT	TOOL	1	7.5	0	0	1	1	7.5	7.5

Activity /	Resource	Resource ...	Qty	Work	-% Qty	+% Qty	Min Qua...	Max Qua...	Min Work	Max Work
Assess Flow Field of Hull	T-DAS BOOT	TOOL	1	7.5	0	0	1	1	7.5	7.5
Assess Flow Field of Hull	T-CFDSHIP...	TOOL	1	7.5	0	0	1	1	7.5	7.5
Assess Flow Field of Hull	T-TECPLOT	TOOL	1	7.5	0	0	1	1	7.5	7.5
Assess Flow Field of Topside	T-Fluent	TOOL	1	20	0	0	1	1	20	20
Assess Flow Field of Topside	T-OpenFOAM	TOOL	1	20	0	0	1	1	20	20
Assess Flow Field of Topside	T-NAVY Sta...	TOOL	1	20	0	0	1	1	20	20
Assess Flow Field of Topside	L-Journeym...	LABOR	1.5	30	33.33	33.33	1	2	20	40
Assess Fragmentation	T-VIVA	TOOL	1	3	0	0	1	1	3	3
Assess Fragmentation	L-Senior	LABOR	0.05	0.15	0	100	0.05	0.1	0.15	0.3
Assess Fragmentation	L-Journeym...	LABOR	0.5	1.5	0	20	0.5	0.6	1.5	1.8
Assess Fragmentation	L-Junior	LABOR	0.4	1.2	0	87.5	0.4	0.75	1.2	2.25
Assess HVAC	L-Junior	LABOR	1	2	0	0	1	1	2	2
Assess HVAC	L-Journeym...	LABOR	0.1	0.2	0	0	0.1	0.1	0.2	0.2
Assess HVAC	T-HVAC	TOOL	1	2	0	0	1	1	2	2
Assess HVAC	T-SIMSMART	TOOL	1	2	0	0	1	1	2	2
Assess HVAC	R-ASHRAE	Reference	1	2	0	0	1	1	2	2
Assess Habitability & Crew Services	L-Senior	LABOR	0.3	2.1	66.67	33.33	0.1	0.4	0.7	2.8
Assess Habitability & Crew Services	T-Jack	TOOL	1	7	0	0	1	1	7	7
Assess Hull Performance and Loads by Model Test	T-Excel	TOOL	1	180	0	0	1	1	180	180
Assess Hull Performance and Loads by Model Test	L-Journeym...	LABOR	1	180	0	0	1	1	180	180
Assess Hull Performance and Loads by Model Test	T-LABVIEW	TOOL	1	180	0	0	1	1	180	180
Assess Hull Performance and Loads by Model Test	T-MATLAB	TOOL	1	180	0	0	1	1	180	180
Assess Hull Performance and Loads by Model Test	L-Junior	LABOR	1	180	0	0	1	1	180	180
Assess Human Systems Integration	T-TRPMM	TOOL	1	40	0	0	1	1	40	40
Assess Human Systems Integration	L-Senior	LABOR	0.2	8	50	100	0.1	0.4	4	16
Assess IR Signature	T-ShipIR	TOOL	1	14	0	0	1	1	14	14
Assess IR Signature	L-Senior	LABOR	0.25	3.5	60	100	0.1	0.5	1.4	7
Assess IR Signature	L-Journeym...	LABOR	0.75	10.5	20	33.33	0.6	1	8.4	14
Assess ITD Risk	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Assess ITD Risk	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Assess LAN Systems Adequacy	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Assess LAN Systems Adequacy	L-Senior	LABOR	0.1	1.5	0	0	0.1	0.1	1.5	1.5
Assess Machinery Arrngements	L-Senior	LABOR	1	5	0	0	1	1	5	5
Assess Magnetic Signature	L-Journeym...	LABOR	0.5	7	0	100	0.5	1	7	14
Assess Magnetic Signature	L-Junior	LABOR	0.5	7	0	100	0.5	1	7	14
Assess Magnetic Signature	L-Senior	LABOR	0.2	2.8	0	0	0.2	0.2	2.8	2.8
Assess Magnetic Signature	T-3D FEM	TOOL	1	14	0	0	1	1	14	14
Assess Maneuvering and Control	T-MANSIM	TOOL	1	10	0	0	1	1	10	10
Assess Maneuvering and Control	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Assess Mission Systems Performance	L-Journeym...	LABOR	0.75	22.5	33.33	33.33	0.5	1	15	30
Assess Mission Systems Performance	L-Senior	LABOR	0.5	15	50	50	0.25	0.75	7.5	22.5
Assess Mission Systems Performance	T-TRM	TOOL	1	30	0	0	1	1	30	30
Assess Mission Systems Performance	T-TMSS	TOOL	1	30	0	0	1	1	30	30
Assess Mission Systems Performance	T-CRUISE	TOOL	1	30	0	0	1	1	30	30
Assess Naval Architecture Limits	L-Journeym...	LABOR	1	5	0	0	1	1	5	5
Assess Naval Architecture Limits	T-Weight E...	TOOL	1	5	0	0	1	1	5	5
Assess Nuclear Effects	L-Journeym...	LABOR	1.5	4.5	0	20	1.5	1.8	4.5	5.4
Assess Nuclear Effects	L-Senior	LABOR	0.2	0.6	0	100	0.2	0.4	0.6	1.2
Assess Nuclear Effects	L-Junior	LABOR	1.2	3.6	0	87.5	1.2	2.25	3.6	6.75
Assess Off Design Performance	L-Junior	LABOR	1	2	50	100	0.5	2	1	4
Assess Off Design Performance	L-Senior	LABOR	1	2	50	100	0.5	2	1	4
Assess Propulsion Machinery Heat Loading / MMR Air Cooling	L-Junior	LABOR	1	0.5	0	100	1	2	0.5	1
Assess RadHaz and other EM Safety	L-Senior	LABOR	0.1	1.5	0	0	0.1	0.1	1.5	1.5
Assess RadHaz and other EM Safety	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Assess Radar Signature	L-Journeym...	LABOR	1	3	0	20	1	1.2	3	3.6
Assess Radar Signature	L-Senior	LABOR	0.1	0.3	0	200	0.1	0.3	0.3	0.9
Assess Radar Signature	L-Junior	LABOR	1	3	0	0	1	1	3	3
Assess Radar Signature	T-RCS Bud...	TOOL	1	3	0	0	1	1	3	3

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Assess Radar Signature	T-RTS	TOOL	1	3	0	0	1	1	3	3
Assess Resistance & Powering	T-Worm Cu...	TOOL	1	7.5	0	0	1	1	7.5	7.5
Assess Resistance & Powering	T-CFDSHIP...	TOOL	1	7.5	0	0	1	1	7.5	7.5
Assess Resistance & Powering	T-DAS BOOT	TOOL	1	7.5	0	0	1	1	7.5	7.5
Assess Resistance & Powering	L-Journeym...	LABOR	1	7.5	0	100	1	2	7.5	15
Assess Resistance & Powering	T-TECPLOT	TOOL	1	7.5	0	0	1	1	7.5	7.5
Assess Resistance & Powering	T-HydroComp	TOOL	1	7.5	0	0	1	1	7.5	7.5
Assess Shafting Calculations / Vibration Analysis	T-Shafthit	TOOL	0.25	1	0	0	0.25	0.25	1	1
Assess Shafting Calculations / Vibration Analysis	L-Senior	LABOR	1	4	50	100	0.5	2	2	8
Assess Shafting Calculations / Vibration Analysis	L-Junior	LABOR	1	4	50	100	0.5	2	2	8
Assess Static Damage Stability	T-MapIt	TOOL	1	30	0	0	1	1	30	30
Assess Static Damage Stability	T-PictSolid	TOOL	1	30	0	0	1	1	30	30
Assess Static Damage Stability	T-EditSect	TOOL	1	30	0	0	1	1	30	30
Assess Static Damage Stability	T-SHCP	TOOL	1	30	0	0	1	1	30	30
Assess Static Damage Stability	T-AreaWin	TOOL	1	30	0	0	1	1	30	30
Assess Static Damage Stability	T-KGA_Plot	TOOL	1	30	0	0	1	1	30	30
Assess Static Damage Stability	T-GHS	TOOL	1	30	0	0	1	1	30	30
Assess Static Damage Stability	T-Picture	TOOL	1	30	0	0	1	1	30	30
Assess Static Damage Stability	L-Journeym...	LABOR	1	30	0	0	1	1	30	30
Assess Static Damage Stability	L-Junior	LABOR	1	30	0	0	1	1	30	30
Assess Static Intact Stability	T-EditSect	TOOL	1	37	0	0	1	1	37	37
Assess Static Intact Stability	T-Picture	TOOL	1	37	0	0	1	1	37	37
Assess Static Intact Stability	T-PictSolid	TOOL	1	37	0	0	1	1	37	37
Assess Static Intact Stability	T-Wind	TOOL	1	37	0	0	1	1	37	37
Assess Static Intact Stability	T-KGA_Plot	TOOL	1	37	0	0	1	1	37	37
Assess Static Intact Stability	T-AreaWin	TOOL	1	37	0	0	1	1	37	37
Assess Static Intact Stability	T-MapIt	TOOL	1	37	0	0	1	1	37	37
Assess Static Intact Stability	T-GHS	TOOL	1	37	0	0	1	1	37	37
Assess Static Intact Stability	T-SHCP	TOOL	1	37	0	0	1	1	37	37
Assess Static Intact Stability	L-Junior	LABOR	1	37	0	0	1	1	37	37
Assess Static Intact Stability	L-Journeym...	LABOR	1	37	0	0	1	1	37	37
Assess Stores & Aviation/Unmanned Vehicle Ammunition Handling Systems &...	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Assess Stores & Aviation/Unmanned Vehicle Ammunition Handling Systems &...	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Assess Structural Adequacy - Ultimate Strength	L-Senior	LABOR	2	4	0	0	2	2	4	4
Assess Structural Adequacy - Ultimate Strength	T-ULSTR	TOOL	1	2	0	0	1	1	2	2
Assess Structural Adequacy - Fatigue	T-SUMDAM	TOOL	1	2	0	0	1	1	2	2
Assess Structural Adequacy - Fatigue	L-Senior	LABOR	1	2	0	0	1	1	2	2
Assess Structural Adequacy - Fatigue	L-Journeym...	LABOR	1	2	0	0	1	1	2	2
Assess Structural Adequacy - Stiffness & Vibration	L-Journeym...	LABOR	2	4	0	0	2	2	4	4
Assess Structural Adequacy - Stress	L-Journeym...	LABOR	1	2	0	0	1	1	2	2
Assess Structural Adequacy - Stress	T-MAESTRO	TOOL	1	2	0	0	1	1	2	2
Assess Structural Adequacy - Stress	L-Senior	LABOR	1	2	0	0	1	1	2	2
Assess Structural Adequacy -Finite Element Model Development	T-3D FEM	TOOL	1	15	0	0	1	1	15	15
Assess Structural Adequacy -Finite Element Model Development	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Assess Tank Capacities	L-Junior	LABOR	1	4	0	0	1	1	4	4
Assess Tank Capacities	T-SHCP	TOOL	1	4	0	0	1	1	4	4
Assess Topside Aviation Impacts	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Assess Topside Aviation Impacts	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Assess Topside Coverage/Blockage Vulnerability Impacts	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Assess Topside Coverage/Blockage Vulnerability Impacts	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Assess Topside Design Analyses Against Design Threshold	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Assess Topside Design Analyses Against Design Threshold	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Assess Topside EMC Impacts	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Assess Topside EMC Impacts	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Assess Topside HM&E Impacts	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Assess Topside HM&E Impacts	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Assess Topside Intakes & Uptakes	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1

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Assess Topside Intakes & Uptakes	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Assess Topside Safety (RadHaz) Impacts	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Assess Topside Safety (RadHaz) Impacts	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Assess Topside Signatures (susceptibility) Impact	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Assess Topside Signatures (susceptibility) Impact	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Assess Topside Stack Gas & Air Intakes Impact	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Assess Topside Stack Gas & Air Intakes Impact	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Assess Topside Survivability Impact	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Assess Topside Survivability Impact	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Assess Trail Shaft Performance	L-Junior	LABOR	1	5	0	100	1	2	5	10
Assess Transmission reduction gear sizing	L-Senior	LABOR	1	1	50	100	0.5	2	0.5	2
Assess Transmission reduction gear sizing	L-Junior	LABOR	1	1	50	100	0.5	2	0.5	2
Assess UNDEX Fragmentation	L-Senior	LABOR	0.05	0.15	0	100	0.05	0.1	0.15	0.3
Assess UNDEX Fragmentation	L-Junior	LABOR	0.4	1.2	0	87.5	0.4	0.75	1.2	2.25
Assess UNDEX Fragmentation	L-Journeym...	LABOR	0.5	1.5	20	20	0.4	0.6	1.2	1.8
Assess UNDEX Fragmentation	T-VIVA	TOOL	1	3	0	0	1	1	3	3
Assess UNDEX Shock	L-Journeym...	LABOR	0.5	1.5	20	20	0.4	0.6	1.2	1.8
Assess UNDEX Shock	L-Junior	LABOR	0.45	1.35	0	66.67	0.45	0.75	1.35	2.25
Assess UNDEX Shock	T-VIVA	TOOL	1	3	0	0	1	1	3	3
Assess UNDEX Shock	T-G-SHOCK	TOOL	1	3	0	0	1	1	3	3
Assess UNDEX Shock	L-Senior	LABOR	0.05	0.15	0	100	0.05	0.1	0.15	0.3
Assess UNDEX holing	L-Senior	LABOR	0.05	0.15	0	100	0.05	0.1	0.15	0.3
Assess UNDEX holing	L-Journeym...	LABOR	0.5	1.5	20	20	0.4	0.6	1.2	1.8
Assess UNDEX holing	L-Junior	LABOR	0.45	1.35	0	66.67	0.45	0.75	1.35	2.25
Assess Undex	L-Journeym...	LABOR	0.5	10	0	0	0.5	0.5	10	10
Assess Undex	L-Senior	LABOR	0.1	2	0	0	0.1	0.1	2	2
Assess Undex	L-Junior	LABOR	0.5	10	0	0	0.5	0.5	10	10
Assess Undex Whipping	L-Senior	LABOR	0.05	0.15	0	100	0.05	0.1	0.15	0.3
Assess Undex Whipping	L-Junior	LABOR	0.45	1.35	0	66.67	0.45	0.75	1.35	2.25
Assess Undex Whipping	L-Journeym...	LABOR	0.5	1.5	20	20	0.4	0.6	1.2	1.8
Assess Undex Whipping	T-G-SHOCK	TOOL	1	3	0	0	1	1	3	3
Assess Vulnerability	L-Senior	LABOR	0.1	0.5	0	0	0.1	0.1	0.5	0.5
Assess Vulnerability	L-Junior	LABOR	0.5	2.5	0	0	0.5	0.5	2.5	2.5
Assess Vulnerability	L-Journeym...	LABOR	0.5	2.5	0	0	0.5	0.5	2.5	2.5
Assess Weapon Systems Topside Physical Integration	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Assess Weapon Systems Topside Physical Integration	L-Senior	LABOR	0.2	3	0	0	0.2	0.2	3	3
Assess Weight Input	T-Weight E...	TOOL	1	90	0	0	1	1	90	90
Assess Weight Input	L-Journeym...	LABOR	1	90	0	0	1	1	90	90
Assess Weight Risks	L-Senior	LABOR	1	2	0	0	1	1	2	2
Assess Weight Risks	T-Weight E...	TOOL	1	2	0	0	1	1	2	2
Assess area/volume allocations	T-CAD	TOOL	1	3	0	0	1	1	3	3
Assess area/volume allocations	L-Junior	LABOR	1	3	0	0	1	1	3	3
Assess costs (RDT&E, Acquisition and Life Cycle)	T-OSCAM		1	30	0	0	1	1	30	30
Assess costs (RDT&E, Acquisition and Life Cycle)	L-Senior	LABOR	0.25	7.5	0	0	0.25	0.25	7.5	7.5
Assess costs (RDT&E, Acquisition and Life Cycle)	L-Journeym...	LABOR	1	30	0	0	1	1	30	30
Assess design for producibility	L-Senior	LABOR	1	10	0	0	1	1	10	10
Assess mass properties (Roll up activities)	T-Weight E...	TOOL	1	16	0	0	1	1	16	16
Assess mass properties (Roll up activities)	L-Journeym...	LABOR	1	16	0	0	1	1	16	16
Assess motions and seaway loads	T-VERES	TOOL	1	5	0	0	1	1	5	5
Assess motions and seaway loads	T-SMP	TOOL	1	5	0	0	1	1	5	5
Assess motions and seaway loads	T-Tempest	TOOL	1	5	0	0	1	1	5	5
Assess motions and seaway loads	T-LAMP	TOOL	1	5	0	0	1	1	5	5
Assess motions and seaway loads	L-Journeym...	LABOR	1	5	0	0	1	1	5	5
Assess motions and seaway loads	T-FREDYN	TOOL	1	5	0	0	1	1	5	5
Assess reliability,availability, and maintainability	L-Senior	LABOR	0.05	2.5	0	0	0.05	0.05	2.5	2.5
Assess reliability,availability, and maintainability	L-Journeym...	LABOR	1	50	0	0	1	1	50	50
Assess ship's self emissions	L-Senior	LABOR	0.25	3.75	0	0	0.25	0.25	3.75	3.75
Assess ship's self emissions	L-Journeym...	LABOR	0.25	3.75	0	0	0.25	0.25	3.75	3.75

Activity	Resource	Resource ...	Qty	Work	-% Qty	+% Qty	Min Qua...	Max Qua...	Min Work	Max Work
Assess ship's self emissions	L-Journeym...	LABOR	0.25	37.5	0	0	0.25	0.25	37.5	37.5
Assess ship's self emissions	T?-RF emis...	TOOL	1	15	0	0	1	1	15	15
Assess total ship mission performance	L-Senior	LABOR	3	9	0	0	3	3	9	9
Assess total ship mission performance	L-Journeym...	LABOR	3	9	0	0	3	3	9	9
Circulate G.A. "Drawing"	L-Junior	LABOR	1	4	0	0	1	1	4	4
Circulate Machinery Arrangements Drawings	L-Junior	LABOR	1	4	0	0	1	1	4	4
Circulate Structural "Drawing"	L-Junior	LABOR	3	18	0	0	3	3	18	18
Circulate Structural "Drawing"	T-AUTOCAD	TOOL	1	6	0	0	1	1	6	6
Circulate Structural "Drawing"	L-Journeym...	LABOR	1	6	0	0	1	1	6	6
Circulate Structural "Drawing"	T-Rhino	TOOL	1	6	0	0	1	1	6	6
Define (Develop) CSEL, Define Combat System @ Component List LOD (CSEL)	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Define (Develop) CSEL, Define Combat System @ Component List LOD (CSEL)	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Define Alternative Auxillary Systems for Trade Off Studies @ Schematic LOD	T-CAD	TOOL	24	120	0	0	24	24	120	120
Define Alternative Auxillary Systems for Trade Off Studies @ Schematic LOD	L-Junior	LABOR	24	120	0	0	24	24	120	120
Define Alternative Electrical Systems for Trade Off Studies @ Schematic LOD	L-Senior	LABOR	1	10	0	0	1	1	10	10
Define Alternative Electrical Systems for Trade Off Studies @ Schematic LOD	L-Junior	LABOR	1	10	100	100	0	2	0	20
Define Alternative Electrical Systems for Trade Off Studies @ Schematic LOD	T-CAD	TOOL	0.25	2.5	0	0	0.25	0.25	2.5	2.5
Define Alternative Propulsion Systems for Trade Off Studies @ Schematic LOD	L-Senior	LABOR	1	1	0	0	1	1	1	1
Define Alternative Propulsion Systems for Trade Off Studies @ Schematic LOD	L-Junior	LABOR	1	1	0	0	1	1	1	1
Define Anchoring, Mooring, & Towing Systems @ 3D Space Res LOD	L-Senior	LABOR	0.1	0.5	0	0	0.1	0.1	0.5	0.5
Define Anchoring, Mooring, & Towing Systems @ 3D Space Res LOD	L-Journeym...	LABOR	1	5	0	0	1	1	5	5
Define Anchoring, Mooring, & Towing Systems @ 3D Space Res LOD	T-CAD	TOOL	1	5	0	0	1	1	5	5
Define Anchoring, Mooring, & Towing Systems @ Diagramatic LOD	L-Journeym...	LABOR	1	3	0	0	1	1	3	3
Define Anchoring, Mooring, & Towing Systems @ Diagramatic LOD	L-Senior	LABOR	0.1	0.3	0	0	0.1	0.1	0.3	0.3
Define Auxillary Machinery Arrangements @ 3D Space Reservation LOD	L-Junior	LABOR	1	25	0	0	1	1	25	25
Define Auxillary Machinery Arrangements @ 3D Space Reservation LOD	L-Senior	LABOR	2	50	25	0	1.5	2	37.5	50
Define Aviation Systems @ Diagramatic LOD	T-CAD	TOOL	1	10	0	0	1	1	10	10
Define Aviation Systems @ Diagramatic LOD	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Define Aviation Systems @ Diagramatic LOD	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Define Boat, Unmanned Vehicle & Towed Body Systems @ Component List LOD	L-Journeym...	LABOR	1	2	0	0	1	1	2	2
Define Boat, Unmanned Vehicle & Towed Body Systems @ Component List LOD	L-Senior	LABOR	0.1	0.2	0	0	0.1	0.1	0.2	0.2
Define Boat, Unmanned Vehicle & Towed Body Systems @ Diagramatic LOD	L-Journeym...	LABOR	1	3	0	0	1	1	3	3
Define Boat, Unmanned Vehicle & Towed Body Systems @ Diagramatic LOD	L-Senior	LABOR	0.1	0.3	0	0	0.1	0.1	0.3	0.3
Define C4ISR System @ Component List LOD	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Define C4ISR System @ Component List LOD	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Define C4ISR System Compartments @ Diagramatic LOD	L-Senior	LABOR	0.1	1.5	0	0	0.1	0.1	1.5	1.5
Define C4ISR System Compartments @ Diagramatic LOD	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Define CBR Features @ Diagramatic LOD	L-Senior	LABOR	0.05	0.5	0	0	0.05	0.05	0.5	0.5
Define CBR Features @ Diagramatic LOD	L-Junior	LABOR	0.5	5	0	0	0.5	0.5	5	5
Define CBR Features @ Diagramatic LOD	L-Journeym...	LABOR	0.4	4	0	0	0.4	0.4	4	4
Define Cargo and Ammunition and Handling System @ Diagramatic LOD	L-Senior	LABOR	1	10	0	0	1	1	10	10
Define Cargo and Ammunition and Handling System @ Diagramatic LOD	L-Junior	LABOR	1	10	0	0	1	1	10	10
Define Cargo, Stores, Personnel & Weapons Elevators @ Component List LOD	L-Journeym...	LABOR	1	1	0	0	1	1	1	1
Define Cargo, Stores, Personnel & Weapons Elevators @ Diagramatic LOD	T-CAD	TOOL	1	2	0	0	1	1	2	2
Define Cargo, Stores, Personnel & Weapons Elevators @ Diagramatic LOD	L-Journeym...	LABOR	1	2	0	0	1	1	2	2
Define Combat System Compartments @ Diagramatic LOD	L-Senior	LABOR	0.1	1.5	0	0	0.1	0.1	1.5	1.5
Define Combat System Compartments @ Diagramatic LOD	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Define Damage Control Features @ Diagramatic LOD	L-Journeym...	LABOR	1	5	0	0	1	1	5	5
Define Deckhouse @ 3D surface LOD	L-Journeym...	LABOR	1	7	0	0	1	1	7	7
Define Deckhouse @ 3D surface LOD	L-Junior	LABOR	1	7	0	0	1	1	7	7
Define Deckhouse @ 3D surface LOD	T-CAD	TOOL	1	7	0	0	1	1	7	7
Define Degaussing System @ Diagramatic LOD	L-Journeym...	LABOR	1	5	25	25	0.75	1.25	3.75	6.25
Define Electrical System Arrangements @ 3D Space Reservation LOD	L-Junior	LABOR	1	25	0	0	1	1	25	25
Define Electrical System Arrangements @ 3D Space Reservation LOD	L-Senior	LABOR	2	50	25	0	1.5	2	37.5	50
Define General Arrangements @ 2.5D Arrgt LOD	L-Junior	LABOR	2	40	0	0	2	2	40	40
Define General Arrangements @ 2.5D Arrgt LOD	T-CAD	TOOL	1	20	0	0	1	1	20	20
Define General Arrangements @ 2.5D Arrgt LOD	L-Journeym...	LABOR	1	20	0	0	1	1	20	20
Define HVAC System @ Diagramatic LOD	L-Journeym...	LABOR	0.1	2	0	0	0.1	0.1	2	2

Activity /	Resource	Resource ...	Qty	Work	-% Qty	+% Qty	Min Qua...	Max Qua...	Min Work	Max Work
Define HVAC System @ Diagramatic LOD	L-Junior	LABOR	1	20	0	0	1	1	20	20
Define HVAC System @ Diagramatic LOD	T-CAD	TOOL	1	20	0	0	1	1	20	20
Define HVAC System @ Schematic LOD	L-Journeym...	LABOR	0.1	0.3	0	0	0.1	0.1	0.3	0.3
Define HVAC System @ Schematic LOD	L-Junior	LABOR	1	3	0	0	1	1	3	3
Define HVAC System @ Schematic LOD	T-CAD	TOOL	1	3	0	0	1	1	3	3
Define Hab & Crew Service @ Component List LOD	L-Journeym...	LABOR	0.3	2.1	66.67	66.67	0.1	0.5	0.7	3.5
Define Hab & Crew Service @ Diagramatic LOD	L-Junior	LABOR	1	7	0	0	1	1	7	7
Define Hab & Crew Service @ Diagramatic LOD	T-Jack	TOOL	1	7	0	0	1	1	7	7
Define Hab & Crew Service @ Diagramatic LOD	L-Senior	LABOR	0.3	2.1	66.67	66.67	0.1	0.5	0.7	3.5
Define Hull Form Design Geometry @ 3D surface LOD	T-FastShip	TOOL	1	10	0	0	1	1	10	10
Define Hull Form Design Geometry @ 3D surface LOD	T-Orca	TOOL	1	10	0	0	1	1	10	10
Define Hull Form Design Geometry @ 3D surface LOD	L-Senior	LABOR	1	10	0	0	1	1	10	10
Define Hull and appendages@ 3D surface plus appendages LOD	T-Solidworks	TOOL	1	10	0	0	1	1	10	10
Define Hull and appendages@ 3D surface plus appendages LOD	T-Orca	TOOL	1	10	0	0	1	1	10	10
Define Hull and appendages@ 3D surface plus appendages LOD	T-Rhino	TOOL	1	10	0	0	1	1	10	10
Define Hull and appendages@ 3D surface plus appendages LOD	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Define Hull and appendages@ 3D surface plus appendages LOD	T-FastShip	TOOL	1	10	0	0	1	1	10	10
Define IR Suppression System @ Diagramatic LOD	L-Journeym...	LABOR	0.75	11.25	33.33	33.33	0.5	1	7.5	15
Define Intakes & Uptakes Design @ 3D Space Reservation LOD	L-Senior	LABOR	1.5	30	0	66.67	1.5	2.5	30	50
Define Machinery Control Systems @ Schematic LOD	L-Senior	LABOR	0.25	2.5	0	0	0.25	0.25	2.5	2.5
Define Machinery Control Systems @ Schematic LOD	L-Junior	LABOR	1	10	0	0	1	1	10	10
Define Mast at 3D space reservation LOD - DDS 170-0 Mast designs (with repl...	L-Senior	LABOR	0.1	1.5	0	0	0.1	0.1	1.5	1.5
Define Mast at 3D space reservation LOD - DDS 170-0 Mast designs (with repl...	T-CAD	TOOL	1	15	0	0	1	1	15	15
Define Mast at 3D space reservation LOD - DDS 170-0 Mast designs (with repl...	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Define Propulsion Machinery Arrangements @ 3D Space Reservation LOD	L-Junior	LABOR	1	25	0	0	1	1	25	25
Define Propulsion Machinery Arrangements @ 3D Space Reservation LOD	L-Senior	LABOR	2	50	25	0	1.5	2	37.5	50
Define Propulsion System @ 3D Space Res LOD	T-CAD	TOOL	1	5	0	0	1	1	5	5
Define Propulsion System @ 3D Space Res LOD	L-Junior	LABOR	1	5	0	100	1	2	5	10
Define Selected Auxilliary Systems @ Diagramatic LOD	T-CAD	TOOL	24	120	0	0	24	24	120	120
Define Selected Auxilliary Systems @ Diagramatic LOD	L-Junior	LABOR	24	120	0	0	24	24	120	120
Define Selected Electrical Systems @ Diagramatic LOD	L-Junior	LABOR	1	3	0	0	1	1	3	3
Define Selected Electrical Systems @ Diagramatic LOD	L-Journeym...	LABOR	1	3	0	0	1	1	3	3
Define Shafting Arrangements @ 3D Space Reservation LOD	L-Senior	LABOR	1.5	30	0	66.67	1.5	2.5	30	50
Define Ship LANs @ Diagramatic LOD	L-Senior	LABOR	0.1	1.5	0	0	0.1	0.1	1.5	1.5
Define Ship LANs @ Diagramatic LOD	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Define Steering System @ 3D Space Reservation LOD	L-Journeym...	LABOR	0.25	3.75	0	0	0.25	0.25	3.75	3.75
Define Steering System @ 3D Space Reservation LOD	L-Junior	LABOR	1	15	0	0	1	1	15	15
Define Structural Configuration at 2.5D LOD	L-Senior	LABOR	1	20	0	0	1	1	20	20
Define Structural Configuration at 2.5D LOD	L-Journeym...	LABOR	2	40	0	25	2	2.5	40	50
Define Structural Configuration at 2.5D LOD	T-MAESTRO	TOOL	1	20	0	0	1	1	20	20
Define Structural Configuration at 2.5D LOD	T-SSDP	TOOL	1	20	0	0	1	1	20	20
Define Topside Arrangement Configuration Model at 3D Space Res LOD	L-Journeym...	LABOR	1	20	0	0	1	1	20	20
Define Topside Arrangement Configuration Model at 3D Space Res LOD	L-Senior	LABOR	0.1	2	0	0	0.1	0.1	2	2
Define Topside Arrangement Configuration Model at 3D Space Res LOD	T-CAD	TOOL	1	20	0	0	1	1	20	20
Define Topside Aviation Systems @ 3D Space Res LOD	L-Senior	LABOR	0.1	1.5	0	0	0.1	0.1	1.5	1.5
Define Topside Aviation Systems @ 3D Space Res LOD	T-CAD	TOOL	1	15	0	0	1	1	15	15
Define Topside Aviation Systems @ 3D Space Res LOD	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Define Topside Boat, UMV & Towed Body Systems @ 3D Space Res LOD	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Define Topside Boat, UMV & Towed Body Systems @ 3D Space Res LOD	L-Senior	LABOR	0.1	1.5	0	0	0.1	0.1	1.5	1.5
Define Topside Boat, UMV & Towed Body Systems @ 3D Space Res LOD	T-CAD	TOOL	1	15	0	0	1	1	15	15
Define Topside C4ISR System @ 3D Space Res LOD	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Define Topside C4ISR System @ 3D Space Res LOD	T-CAD	TOOL	1	15	0	0	1	1	15	15
Define Topside C4ISR System @ 3D Space Res LOD	L-Senior	LABOR	0.1	1.5	0	0	0.1	0.1	1.5	1.5
Define Topside Combat System @ 3D Space Res LOD	T-CAD	TOOL	1	15	0	0	1	1	15	15
Define Topside Combat System @ 3D Space Res LOD	L-Senior	LABOR	0.1	1.5	0	0	0.1	0.1	1.5	1.5
Define Topside Combat System @ 3D Space Res LOD	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Define Topside Combat System @ Diagramatic LOD	L-Senior	LABOR	0.1	1.5	0	0	0.1	0.1	1.5	1.5
Define Topside Combat System @ Diagramatic LOD	L-Junior	LABOR	1	15	0	0	1	1	15	15

Activity /	Resource	Resource ...	Qty	Work	-% Qty	+% Qty	Min Qua...	Max Qua...	Min Work	Max Work
Define Topside Combat System @ Diagramatic LOD	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Define Topside UNREP Systems @ 3D Space Res LOD	L-Senior	LABOR	0.1	1.5	0	0	0.1	0.1	1.5	1.5
Define Topside UNREP Systems @ 3D Space Res LOD	T-CAD	TOOL	1	15	0	0	1	1	15	15
Define Topside UNREP Systems @ 3D Space Res LOD	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Define Topside UNREP Systems @ Diagramatic LOD	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Define Topside UNREP Systems @ Diagramatic LOD	L-Senior	LABOR	0.1	1.5	0	0	0.1	0.1	1.5	1.5
Define Topside Weapons System @ 3D Space Res LOD	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Define Topside Weapons System @ 3D Space Res LOD	T-CAD	TOOL	1	15	0	0	1	1	15	15
Define Topside Weapons System @ 3D Space Res LOD	L-Senior	LABOR	0.1	1.5	0	0	0.1	0.1	1.5	1.5
Define Topside Weapons System @ Diagramatic LOD	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Define Topside Weapons System @ Diagramatic LOD	L-Senior	LABOR	0.1	1.5	0	0	0.1	0.1	1.5	1.5
Define Weapons System @ Component List LOD	L-Senior	LABOR	0.2	3	0	0	0.2	0.2	3	3
Define Weapons System @ Component List LOD	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Define propulsor @ 3D space reservation LOD	T-Solidworks	TOOL	1	10	0	0	1	1	10	10
Define propulsor @ 3D space reservation LOD	T-Rhino	TOOL	1	10	0	0	1	1	10	10
Define propulsor @ 3D space reservation LOD	T-PropCAV	TOOL	1	10	0	0	1	1	10	10
Define propulsor @ 3D space reservation LOD	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Plan Hull Form Model Test	L-Journeym...	LABOR	2	60	75	50	0.5	3	15	90
Prepare Stability Report	L-Senior	LABOR	0.25	3.25	0	0	0.25	0.25	3.25	3.25
Prepare Stability Report	T-SHCP	TOOL	1	13	0	0	1	1	13	13
Prepare Stability Report	L-Journeym...	LABOR	1	13	0	0	1	1	13	13
Prepare Stability Report	T-KGA_Plot	TOOL	1	13	0	0	1	1	13	13
Prepare Stability Report	T-Vlines	TOOL	1	13	0	0	1	1	13	13
REVIEW DESIGN (Formal Design Review)	L-Journeym...	LABOR	12	120	0	0	12	12	120	120
REVIEW DESIGN (Formal Design Review)	L-Senior	LABOR	6	60	0	0	6	6	60	60
REVIEW DESIGN (Formal Design Review)	L-Junior	LABOR	12	120	0	0	12	12	120	120
Report Area/Volume/Access	L-Senior	LABOR	0.25	0.25	0	0	0.25	0.25	0.25	0.25
Report Area/Volume/Access	L-Junior	LABOR	1	1	0	0	1	1	1	1
Report Auxilliary Systems Equipment and Performance	L-Senior	LABOR	1	3	0	0	1	1	3	3
Report Auxilliary Systems Equipment and Performance	T-CAD	TOOL	24	72	0	0	24	24	72	72
Report Auxilliary Systems Equipment and Performance	L-Junior	LABOR	24	72	0	0	24	24	72	72
Report Cargo and Ammunition Handling Systems Equipment Lists	L-Junior	LABOR	1	5	0	0	1	1	5	5
Report Cargo and Ammunition Handling Systems Equipment Lists	L-Senior	LABOR	1	5	0	0	1	1	5	5
Report Electrical System Equipment and Performance	L-Junior	LABOR	1	3	0	0	1	1	3	3
Report Electrical System Equipment and Performance	L-Senior	LABOR	1	3	0	0	1	1	3	3
Report HVAC Assessment	L-Senior	LABOR	1	1	0	0	1	1	1	1
Report HVAC Equipment List	L-Junior	LABOR	1	5	0	0	1	1	5	5
Report HVAC Equipment List	T-CAD	TOOL	1	5	0	0	1	1	5	5
Report Hull Performance	L-Journeym...	LABOR	1.5	15	33.33	33.33	1	2	10	20
Report Hull Performance	L-Senior	LABOR	0.25	2.5	0	0	0.25	0.25	2.5	2.5
Report Human Systems Assessment	L-Journeym...	LABOR	1	2	0	0	1	1	2	2
Report Human Systems Assessment	L-Senior	LABOR	1	2	0	0	1	1	2	2
Report Integrated Topside Design	L-Journeym...	LABOR	1	5	0	0	1	1	5	5
Report Integrated Topside Design	L-Senior	LABOR	0.25	1.25	0	0	0.25	0.25	1.25	1.25
Report Machinery Control Equipment List	L-Junior	LABOR	1	3	0	0	1	1	3	3
Report Machinery Control Equipment List	L-Senior	LABOR	0.25	0.75	0	0	0.25	0.25	0.75	0.75
Report Mass Properties	L-Senior	LABOR	0.25	2.5	0	0	0.25	0.25	2.5	2.5
Report Mass Properties	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Report Mass Properties	T-Weight E...	TOOL	1	10	0	0	1	1	10	10
Report Master Equipment List	L-Senior	LABOR	1	4	25	50	0.75	1.5	3	6
Report Propulsion Machinery List	L-Junior	LABOR	1	2	0	0	1	1	2	2
Report Propulsion Machinery List	L-Senior	LABOR	0.25	0.5	0	0	0.25	0.25	0.5	0.5
Report Recoverability Assessment	L-Senior	LABOR	0.25	1.25	0	0	0.25	0.25	1.25	1.25
Report Recoverability Assessment	L-Journeym...	LABOR	0.5	2.5	0	0	0.5	0.5	2.5	2.5
Report Steering System Equipment List	L-Junior	LABOR	1	5	0	0	1	1	5	5
Report Structural Adequacy	L-Journeym...	LABOR	2	2	0	0	2	2	2	2
Report Survivability Assessment	L-Senior	LABOR	0.25	1	0	0	0.25	0.25	1	1
Report Survivability Assessment	L-Journeym...	LABOR	0.5	2	0	0	0.5	0.5	2	2

Activity	Resource	Resource ...	Qty	Work	-% Qty	+% Qty	Min Qua...	Max Qua...	Min Work	Max Work
Report Susceptibility Assessment	L-Junior	LABOR	0.5	5	0	40	0.5	0.7	5	7
Report Susceptibility Assessment	L-Senior	LABOR	0.1	1	0	200	0.1	0.3	1	3
Report Susceptibility Assessment	L-Journeym...	LABOR	0.5	5	0	40	0.5	0.7	5	7
Report Vulnerability Assessment	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Report Vulnerability Assessment	L-Junior	LABOR	0.5	5	0	0	0.5	0.5	5	5
Report Vulnerability Assessment	L-Journeym...	LABOR	0.5	5	0	0	0.5	0.5	5	5
Review / Set System Requirements	L-Senior	LABOR	0.5	2.5	0	0	0.5	0.5	2.5	2.5
Review / Set System Requirements	L-Journeym...	LABOR	2.4	12	0	0	2.4	2.4	12	12
Review / Set System Requirements	L-Junior	LABOR	24	120	0	0	24	24	120	120
Review / Set System Requirements	T-CAD	TOOL	1	5	0	0	1	1	5	5
Review Feasibility Study or redirection from prior Preliminary Design Cycle	L-Senior	LABOR	7	35	0	0	7	7	35	35
Review Feasibility Study or redirection from prior Preliminary Design Cycle	L-Journeym...	LABOR	7	35	0	0	7	7	35	35
Review/Set Auxilliary Systems Architectural requirements and Margins	L-Journeym...	LABOR	0.1	0.5	0	0	0.1	0.1	0.5	0.5
Review/Set Auxilliary Systems Architectural requirements and Margins	T-CAD	TOOL	1	5	0	0	1	1	5	5
Review/Set Auxilliary Systems Architectural requirements and Margins	L-Junior	LABOR	1	5	0	0	1	1	5	5
Review/Set Aviation Systems Architecture	L-Journeym...	LABOR	1	3	0	0	1	1	3	3
Review/Set Cargo and Ammunition Handling Systems and Equipment Require...	L-Senior	LABOR	1	15	0	0	1	1	15	15
Review/Set Cargo and Ammunition Handling Systems and Equipment Require...	L-Junior	LABOR	1	15	0	0	1	1	15	15
Review/Set EMCON modes and characteristics	L-Journeym...	LABOR	0.75	2.25	33.33	33.33	0.5	1	1.5	3
Review/Set Electric System Load	L-Junior	LABOR	1	15	100	200	0	3	0	45
Review/Set Electric System Load	L-Senior	LABOR	1	15	0	0	1	1	15	15
Review/Set Electrical System Architecture Margins	L-Junior	LABOR	1	10	0	0	1	1	10	10
Review/Set Electrical System Architecture Margins	L-Senior	LABOR	0.1	1	0	0	0.1	0.1	1	1
Review/Set Electrical System Architecture Margins	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Review/Set General Arrangement Requirements and Feedback and Set Objec...	L-Journeym...	LABOR	1	10	0	0	1	1	10	10
Review/Set General Arrangement Requirements and Feedback and Set Objec...	L-Senior	LABOR	1	10	0	0	1	1	10	10
Review/Set General Arrangement Requirements and Feedback and Set Objec...	L-Junior	LABOR	1	10	0	0	1	1	10	10
Review/Set HVAC Architectural requirements and Margins	L-Journeym...	LABOR	0.1	0.5	0	0	0.1	0.1	0.5	0.5
Review/Set HVAC Architectural requirements and Margins	T-CAD	TOOL	1	5	0	0	1	1	5	5
Review/Set HVAC Architectural requirements and Margins	L-Junior	LABOR	1	5	0	0	1	1	5	5
Review/Set HVAC Loads	L-Journeym...	LABOR	0.1	0.5	0	0	0.1	0.1	0.5	0.5
Review/Set HVAC Loads	L-Junior	LABOR	1	5	0	0	1	1	5	5
Review/Set HVAC Loads	T-CAD	TOOL	1	5	0	0	1	1	5	5
Review/Set Integrated Topside Design Architecture	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Review/Set Integrated Topside Design Architecture	L-Senior	LABOR	0.25	3.75	0	0	0.25	0.25	3.75	3.75
Review/Set Machinery Control System Requirements, Architecture, and Margins	L-Senior	LABOR	1	20	0	0	1	1	20	20
Review/Set Machinery Control System Requirements, Architecture, and Margins	L-Junior	LABOR	0.5	10	0	0	0.5	0.5	10	10
Review/Set Navigation Limits (Bridge, Canal, etc)	L-Journeym...	LABOR	1	1	0	0	1	1	1	1
Review/Set Performance Requirements, Data, Design Requirements for Hull F...	L-Senior	LABOR	2	10	25	75	1.5	3.5	7.5	17.5
Review/Set Steering Systems Architecture	L-Junior	LABOR	1	5	0	0	1	1	5	5
Review/Set Steering Systems Requirements	L-Journeym...	LABOR	1	2	0	0	1	1	2	2
Review/Set Steering Systems Requirements	L-Junior	LABOR	1	2	0	0	1	1	2	2
Review/Set Structural Architecture	T-Engineeri...	TOOL	1	2	0	0	1	1	2	2
Review/Set Structural Architecture	L-Senior	LABOR	2	4	0	0	2	2	4	4
Review/Set Structural Architecture	T-Producibi...	TOOL	1	2	0	0	1	1	2	2
Review/Set Structural Loads	T-Spectra	TOOL	1	2	0	0	1	1	2	2
Review/Set Structural Loads	R-DDS100-6	Reference	1	2	0	0	1	1	2	2
Review/Set Structural Loads	L-Journeym...	LABOR	1	2	0	0	1	1	2	2
Review/Set Structural Loads	L-Senior	LABOR	1	2	0	0	1	1	2	2
Review/Set area/volume/tankage requirements	L-Journeym...	LABOR	1	2	0	0	1	1	2	2
Review/Set combat systems architecture	L-Senior	LABOR	0.25	3.75	0	0	0.25	0.25	3.75	3.75
Review/Set combat systems architecture	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Review/Set command and surveillance (C4ISR) systems architecture	L-Journeym...	LABOR	1	15	0	0	1	1	15	15
Review/Set command and surveillance (C4ISR) systems architecture	L-Senior	LABOR	0.25	3.75	0	0	0.25	0.25	3.75	3.75
Review/Set hull and deckhouse envelope	L-Junior	LABOR	1	10	0	0	1	1	10	10
Review/Set hull and deckhouse envelope	T-CAD	TOOL	1	10	0	0	1	1	10	10
Review/Set hull and deckhouse envelope	L-Journeym...	LABOR	1	10	0	0	1	1	10	10

Activity /	Resource	Resource ...	Qty	Work	-% Qty	+% Qty	Min Qua...	Max Qua...	Min Work	Max Work
Review/Set other Mission systems architecture	L-Senior	LABOR	0.25	0.75	0	0	0.25	0.25	0.75	0.75
Review/Set other Mission systems architecture	L-Journeyem...	LABOR	1	3	0	0	1	1	3	3
Review/Set survivability concept	L-Journeyem...	LABOR	0.25	1.25	0	0	0.25	0.25	1.25	1.25
Review/Set survivability concept	L-Senior	LABOR	0.5	2.5	0	0	0.5	0.5	2.5	2.5
Set Alternative Propulsion Architectures for Trade Studies	L-Senior	LABOR	1	2	50	100	0.5	2	1	4
Set Alternative Propulsion Architectures for Trade Studies	L-Junior	LABOR	1	2	50	100	0.5	2	1	4
Set Direction for Next Design Cycle including Service Life Allowance Margin, M...	L-Senior	LABOR	3	9	0	0	3	3	9	9
Set Exhaust / Intake Silencer Sizing	T-Maxim Si...	TOOL	1	2	0	0	1	1	2	2
Set Exhaust / Intake Silencer Sizing	L-Junior	LABOR	1	2	50	100	0.5	2	1	4
Set Exhaust / Intake Silencer Sizing	L-Senior	LABOR	1	2	0	100	1	2	2	4
Set LO Types and Storage	L-Junior	LABOR	1	5	0	100	1	2	5	10
Set Stability Criteria	L-Senior	LABOR	0.5	3	0	0	0.5	0.5	3	3
Set Stability Criteria	L-Journeyem...	LABOR	0.5	3	0	0	0.5	0.5	3	3
Set Weight/KG margins and Service Life Allowance	L-Senior	LABOR	0.25	0.5	0	0	0.25	0.25	0.5	0.5
Set Weight/KG margins and Service Life Allowance	T-Weight E...	TOOL	1	2	0	0	1	1	2	2
Set Weight/KG margins and Service Life Allowance	L-Journeyem...	LABOR	1	2	0	0	1	1	2	2
Set functional allocations to crew, hardware, software, or offboard	L-Senior	LABOR	0.4	2.8	50	75	0.2	0.7	1.4	4.9