

# Tests of Normality - use case templates

	Task	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Precision	ARNE Understand	.093	40	.200 <sup>*</sup>	.962	40	.190
	ARNE Review	.117	40	.178	.917	40	.006
	ARNE Create	.146	40	.032	.897	40	.002
	ARNE Modify	.119	40	.161	.917	40	.006
	ALCO Understand	.335	40	.000	.572	40	.000
	ALCO Review	.229	40	.000	.737	40	.000
	ALCO Create	.265	40	.000	.739	40	.000
	ALCO Modify	.258	40	.000	.767	40	.000
Recall	ARNE Understand	.160	40	.012	.954	40	.108
	ARNE Review	.161	40	.011	.942	40	.041
	ARNE Create	.174	40	.004	.930	40	.017
	ARNE Modify	.133	40	.072	.946	40	.055
	ALCO Understand	.346	40	.000	.556	40	.000
	ALCO Review	.403	40	.000	.574	40	.000
	ALCO Create	.257	40	.000	.744	40	.000
	ALCO Modify	.256	40	.000	.738	40	.000
FMeasure	ARNE Understand	.109	40	.200 <sup>*</sup>	.964	40	.231
	ARNE Review	.174	40	.004	.913	40	.005
	ARNE Create	.199	40	.000	.881	40	.001
	ARNE Modify	.161	40	.011	.902	40	.002
	ALCO Understand	.407	40	.000	.555	40	.000
	ALCO Review	.330	40	.000	.656	40	.000
	ALCO Create	.244	40	.000	.744	40	.000
	ALCO Modify	.282	40	.000	.749	40	.000
Duration	ARNE Understand	.199	40	.000	.904	40	.003
	ARNE Review	.222	40	.000	.823	40	.000
	ARNE Create	.267	40	.000	.839	40	.000
	ARNE Modify	.237	40	.000	.844	40	.000
	ALCO	.264	40	.000	.868	40	.000

	Understand						
	ALCO Review	.280	40	.000	.850	40	.000
	ALCO Create	.311	40	.000	.834	40	.000
	ALCO Modify	.305	40	.000	.841	40	.000
FirstActDet	ARNE Understand	.304	40	.000	.804	40	.000
	ARNE Review	.245	40	.000	.897	40	.002
	ARNE Create	.287	40	.000	.819	40	.000
	ARNE Modify	.312	40	.000	.809	40	.000
	ALCO Understand	.229	40	.000	.873	40	.000
	ALCO Review	.289	40	.000	.873	40	.000
	ALCO Create	.289	40	.000	.871	40	.000
	ALCO Modify	.219	40	.000	.870	40	.000
LastActDet	ARNE Understand	.188	40	.001	.916	40	.006
	ARNE Review	.203	40	.000	.842	40	.000
	ARNE Create	.228	40	.000	.841	40	.000
	ARNE Modify	.208	40	.000	.852	40	.000
	ALCO Understand	.241	40	.000	.892	40	.001
	ALCO Review	.258	40	.000	.879	40	.000
	ALCO Create	.289	40	.000	.862	40	.000
	ALCO Modify	.285	40	.000	.866	40	.000
ProcDur	ARNE Understand	.332	40	.000	.641	40	.000
	ARNE Review	.266	40	.000	.812	40	.000
	ARNE Create	.262	40	.000	.820	40	.000
	ARNE Modify	.301	40	.000	.753	40	.000
	ALCO Understand	.226	40	.000	.882	40	.001
	ALCO Review	.231	40	.000	.887	40	.001
	ALCO Create	.210	40	.000	.888	40	.001
	ALCO Modify	.220	40	.000	.878	40	.000
FixRel	ARNE Understand	.285	40	.000	.853	40	.000
	ARNE Review	.232	40	.000	.848	40	.000
	ARNE Create	.235	40	.000	.838	40	.000

	ARNE Modify	.216	40	.000	.852	40	.000
	ALCO Understand	.182	40	.002	.915	40	.005
	ALCO Review	.198	40	.000	.917	40	.006
	ALCO Create	.169	40	.005	.926	40	.012
	ALCO Modify	.162	40	.010	.923	40	.010
FixIrrel	ARNE Understand	.229	40	.000	.818	40	.000
	ARNE Review	.229	40	.000	.827	40	.000
	ARNE Create	.228	40	.000	.809	40	.000
	ARNE Modify	.236	40	.000	.829	40	.000
	ALCO Understand	.225	40	.000	.813	40	.000
	ALCO Review	.294	40	.000	.539	40	.000
	ALCO Create	.305	40	.000	.515	40	.000
	ALCO Modify	.306	40	.000	.515	40	.000
AvDurRelFix	ARNE Understand	.201	40	.000	.840	40	.000
	ARNE Review	.234	40	.000	.842	40	.000
	ARNE Create	.222	40	.000	.822	40	.000
	ARNE Modify	.223	40	.000	.841	40	.000
	ALCO Understand	.221	40	.000	.822	40	.000
	ALCO Review	.265	40	.000	.800	40	.000
	ALCO Create	.265	40	.000	.792	40	.000
	ALCO Modify	.253	40	.000	.805	40	.000
AvDurIrrelFix	ARNE Understand	.235	40	.000	.809	40	.000
	ARNE Review	.228	40	.000	.822	40	.000
	ARNE Create	.230	40	.000	.805	40	.000
	ARNE Modify	.239	40	.000	.824	40	.000
	ALCO Understand	.226	40	.000	.812	40	.000
	ALCO Review	.265	40	.000	.800	40	.000
	ALCO Create	.265	40	.000	.792	40	.000
	ALCO Modify	.253	40	.000	.805	40	.000
TotSac	ARNE Understand	.196	40	.000	.865	40	.000
	ARNE Review	.172	40	.004	.900	40	.002

	ARNE Create	.188	40	.001	.890	40	.001
	ARNE Modify	.151	40	.022	.895	40	.001
	ALCO Understand	.154	40	.019	.900	40	.002
	ALCO Review	.146	40	.032	.928	40	.014
	ALCO Create	.148	40	.028	.911	40	.004
	ALCO Modify	.138	40	.053	.905	40	.003
Sac2Key	ARNE Understand	.227	40	.000	.863	40	.000
	ARNE Review	.206	40	.000	.800	40	.000
	ARNE Create	.220	40	.000	.791	40	.000
	ARNE Modify	.246	40	.000	.820	40	.000
	ALCO Understand	.164	40	.009	.906	40	.003
	ALCO Review	.155	40	.016	.910	40	.004
	ALCO Create	.168	40	.006	.908	40	.003
	ALCO Modify	.170	40	.005	.895	40	.001
AvAttention	ARNE Understand	.217	40	.000	.895	40	.001
	ARNE Review	.273	40	.000	.873	40	.000
	ARNE Create	.216	40	.000	.894	40	.001
	ARNE Modify	.204	40	.000	.913	40	.005
	ALCO Understand	.120	40	.151	.929	40	.015
	ALCO Review	.167	40	.007	.914	40	.005
	ALCO Create	.205	40	.000	.879	40	.000
	ALCO Modify	.192	40	.001	.883	40	.001
AvMentWL	ARNE Understand	.236	40	.000	.898	40	.002
	ARNE Review	.255	40	.000	.827	40	.000
	ARNE Create	.178	40	.003	.893	40	.001
	ARNE Modify	.151	40	.023	.902	40	.002
	ALCO Understand	.149	40	.026	.939	40	.032
	ALCO Review	.154	40	.018	.952	40	.086
	ALCO Create	.183	40	.002	.905	40	.003
	ALCO Modify	.143	40	.038	.932	40	.018
AvFam	ARNE Understand	.259	40	.000	.852	40	.000

	ARNE Review	.255	40	.000	.827	40	.000
	ARNE Create	.223	40	.000	.842	40	.000
	ARNE Modify	.203	40	.000	.860	40	.000
	ALCO Understand	.160	40	.012	.914	40	.005
	ALCO Review	.132	40	.078	.941	40	.036
	ALCO Create	.184	40	.002	.908	40	.003
	ALCO Modify	.174	40	.004	.905	40	.003
AvSCL	ARNE Understand	.212	40	.000	.900	40	.002
	ARNE Review	.122	40	.138	.941	40	.038
	ARNE Create	.126	40	.111	.933	40	.020
	ARNE Modify	.140	40	.046	.943	40	.043
	ALCO Understand	.134	40	.067	.920	40	.008
	ALCO Review	.144	40	.035	.913	40	.005
	ALCO Create	.147	40	.029	.890	40	.001
	ALCO Modify	.139	40	.050	.894	40	.001
HRVar_RMSSD	ARNE Understand	.263	40	.000	.856	40	.000
	ARNE Review	.245	40	.000	.801	40	.000
	ARNE Create	.259	40	.000	.793	40	.000
	ARNE Modify	.232	40	.000	.835	40	.000
	ALCO Understand	.192	40	.001	.867	40	.000
	ALCO Review	.202	40	.000	.875	40	.000
	ALCO Create	.204	40	.000	.868	40	.000
	ALCO Modify	.210	40	.000	.863	40	.000
HRVar_NN50	ARNE Understand	.179	40	.002	.866	40	.000
	ARNE Review	.232	40	.000	.835	40	.000
	ARNE Create	.222	40	.000	.849	40	.000
	ARNE Modify	.200	40	.000	.861	40	.000
	ALCO Understand	.176	40	.003	.883	40	.001
	ALCO Review	.189	40	.001	.886	40	.001
	ALCO Create	.190	40	.001	.880	40	.001
	ALCO Modify	.194	40	.001	.884	40	.001

NASA_MD	ARNE Understand	.196	40	.001	.875	40	.000
	ARNE Review	.248	40	.000	.856	40	.000
	ARNE Create	.229	40	.000	.872	40	.000
	ARNE Modify	.214	40	.000	.875	40	.000
	ALCO Understand	.188	40	.001	.885	40	.001
	ALCO Review	.226	40	.000	.886	40	.001
	ALCO Create	.243	40	.000	.870	40	.000
	ALCO Modify	.253	40	.000	.868	40	.000
NASA_PD	ARNE Understand	.362	40	.000	.665	40	.000
	ARNE Review	.329	40	.000	.682	40	.000
	ARNE Create	.272	40	.000	.743	40	.000
	ARNE Modify	.327	40	.000	.695	40	.000
	ALCO Understand	.338	40	.000	.679	40	.000
	ALCO Review	.354	40	.000	.673	40	.000
	ALCO Create	.383	40	.000	.676	40	.000
	ALCO Modify	.316	40	.000	.722	40	.000
NASA_TD	ARNE Understand	.260	40	.000	.784	40	.000
	ARNE Review	.219	40	.000	.779	40	.000
	ARNE Create	.218	40	.000	.779	40	.000
	ARNE Modify	.278	40	.000	.769	40	.000
	ALCO Understand	.231	40	.000	.776	40	.000
	ALCO Review	.227	40	.000	.801	40	.000
	ALCO Create	.215	40	.000	.814	40	.000
	ALCO Modify	.206	40	.000	.817	40	.000
NASA_Performance	ARNE Understand	.281	40	.000	.855	40	.000
	ARNE Review	.220	40	.000	.884	40	.001
	ARNE Create	.192	40	.001	.884	40	.001
	ARNE Modify	.202	40	.000	.876	40	.000
	ALCO Understand	.176	40	.003	.913	40	.005
	ALCO Review	.203	40	.000	.895	40	.001
	ALCO Create	.241	40	.000	.878	40	.000

	ALCO Modify	.210	40	.000	.912	40	.004
NASA_Effort	ARNE Understand	.126	40	.107	.928	40	.014
	ARNE Review	.174	40	.004	.919	40	.007
	ARNE Create	.165	40	.008	.919	40	.007
	ARNE Modify	.162	40	.010	.914	40	.005
	ALCO Understand	.136	40	.061	.926	40	.012
	ALCO Review	.140	40	.047	.935	40	.023
	ALCO Create	.168	40	.006	.908	40	.003
	ALCO Modify	.175	40	.004	.909	40	.004
NASA_Frustration	ARNE Understand	.255	40	.000	.858	40	.000
	ARNE Review	.237	40	.000	.841	40	.000
	ARNE Create	.268	40	.000	.812	40	.000
	ARNE Modify	.254	40	.000	.826	40	.000
	ALCO Understand	.199	40	.000	.875	40	.000
	ALCO Review	.208	40	.000	.867	40	.000
	ALCO Create	.236	40	.000	.832	40	.000
	ALCO Modify	.236	40	.000	.829	40	.000
NASA_Score	ARNE Understand	.228	40	.000	.886	40	.001
	ARNE Review	.213	40	.000	.885	40	.001
	ARNE Create	.217	40	.000	.900	40	.002
	ARNE Modify	.174	40	.004	.914	40	.005
	ALCO Understand	.162	40	.009	.914	40	.005
	ALCO Review	.131	40	.084	.943	40	.042
	ALCO Create	.150	40	.024	.951	40	.079
	ALCO Modify	.171	40	.005	.922	40	.009

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction