Grade I Surveyor

Competence 8

The ability to calculate tidal and water column parameters for use within the survey system/project
This meets the requirements of IMCA S/S21/000//10

Candidate Name:		Date:	
Activity Number (1,2, or 3):			

Performance Criteria: all of these must be assessed over a minimum of 3 work activities

Type of Evidence: Observation (O), Work Product (P), Written (W), Questioning (Q), Not Covered (N/C) or Not Applicable (N/A)

	Performance Criteria	Type of Evidence
a)	Demonstrates knowledge of the effect of tidal and water column parameters on survey sensors	
b)	Demonstrate knowledge of sound propagation and factors affecting its application to survey observations	
c)	Demonstrates the ability to undertake a water column measurement	
d)	Demonstrates the ability to select an appropriate propagation formula and compute sound velocity	
e)	Demonstrates the ability to apply sound velocity data to survey sensors and data	
f)	Demonstrates knowledge of tides and currents and their affect on survey operations	
g)	Demonstrates knowledge of, and ability to compute co-tidal and co-range factors	
h)	Demonstrates the ability to compute and apply tidal reduction parameters to bathymetry data by prediction from standard and secondary ports	
i)	Demonstrates the ability to apply tidal observations to bathymetry data	
j)	Demonstrates knowledge of basic oceanography and meteorology	

Witness name: (If applicable in assessment plan)		Date:	
Assessor name:		Date:	