# Steam Ship Certificate of Competency Course At Singapore Maritime Academy (SMA)

## 1. Summative Assessment

Type of Assessment	Sections	Type of Question	Topic Distribution	No. of Questions	Marks	Marks Distribution		
	A	1.Multiple	Topic A - Boiler	2	8			
		Choice	Topic B - Comb	2	8	0		
p	Section A	2.Multiple	Topic C - Cond	2	8			
ase it	ecti	Answer	Topic D - Turbine	2	8			
ba en	S	3.Matching	Topic E - LNG	2	8			
			Topic F - Oper	2	8	= 6 %]		
mputer-bas Assessment		4.Numeric	Topic A - Boiler	1	2	Total = 60 [40%]		
lpu	В	Response	Topic B - Comb	1	2			
Computer-based Assessment	Section B	5.Completion	Topic C - Cond	1	2			
Ŭ			Topic D - Turbine	1	2			
		6.True/False	Topic E - LNG	1	2			
			Topic F - Oper	1	2			
	Section D Section C	7.Short	Topic B - Comb	1	10	0		
<b>+</b>		Answer	Topic C - Cond	1	10	=		
al			Topic E - LNG	1	10	Total = 40		
Manua			Topic F - Oper	1	10	50 T [60%]		
ess		8.Long	Topic A - Boiler	1	25	09		
Manual Assessment		Answer	Topic D - Turbine	1	25	Total = 50 [6		
					Total =	150		
	Topic A – Boiler,							
Topic B – Combustion,								
Topic C – Condensate & Feed,								
Topic D – Steam Turbine								
-	Topic E – LNG System							
Topic F - Plant Operation								

#### 2. Means of Assessment

Assessment Components	Type of Assessment	When Conducted	Weightage %
1. Coursework A	Computer-based	Continuous	15
	online assessment	(in-Course)	
2. Coursework B	12 Assignments – 2	Continuous	15
	each for 6 main areas	(in-Course)	
	of coverage.		
	(Individual Portfolio)		
3. Summative	Computer-based	End of Course	55
Assessment	online assessment		
4. Shipboard	6 Assignments – 1	During steam ship	15
Assignments	each for 6 main areas	attachment	
	of coverage.	(preferably LNG	
	(Appending Individual	carrier).	
	Portfolio)		

#### Note: Assessments will cover

- The knowledge components [Subsections A, B, C, D and E in Section 12] using knowledge-based tools and computer-based drill & practice.
- The competency-based components [Subsections F in Section 12] using Steam Simulator.

### 3. Table of Specifications

		Abilities (%)			Tatal
Topics – Six Main Areas of Coverage			С	A/HA	Total (%)
	A. Steam Boilers	4	4	12	20
	<b>B.</b> Combustion Theory & Practice	2.5	2.5	2	7
Knowledge of	C. Main Condensate & Feed Water System	2	2	6	10
	<b>D.</b> Steam Turbines	4	4	12	20
	E. LNG System	2.5	2.5	2	7
Proficiency in	F. Plant Operation	6	6	24	36
	Total	23	23	54	100

Note:

1. The letters K, C, A/HA in the table of specifications denote respectively, the Knowledge, Comprehension, and Application/Higher than Application levels of Bloom's Taxonomy in the cognitive domain.