



# SOPEEC

**STANDARDIZATION OF POWER ENGINEER EXAMINATIONS COMMITTEE**

March 2014

## Power Engineer Third Class Part B Paper 1 Examination

***The target implementation date for the new multiple-choice examination format is January 1, 2016.***

After the approval of the Association of Chief Inspectors regarding the administration of the Power Engineer Third Class Part B Paper 1 (3B1) examination in the multiple-choice format in August 2013, SOPEEC members have reviewed the 3B1 syllabus. Based on the importance of the syllabus topics, the following weight factors (number of questions for each key syllabus topic) was established as the following:

<b>Exam Section Reference</b>	<b>Exam Section – brief description</b>	<b>Subject</b>	<b>Number of questions to be chosen for the 3B1 Exam</b>
3.01	B1 Design	Water Boiler Design	10
3.02	B2 Sp Design	Special Boiler Designs	5
3.03	B3 Construction	Boiler Construction	5
3.04	B4 Heat Transfer	Boiler Heat Transfer Components	10
3.05	B5 Burner	Burner Designs & Supply System	5
3.06	B6 Draft	Boiler Draft & Flue Gas Systems	10
3.07	B7 Procedure	Boiler Procedure	5
3.08	C1 HP Fittings	High Pressure Boiler Fittings	15
3.09	C2 Control	Boiler Control Systems	10
3.10	W1 Internal	Internal Water Treatment for Boilers	15
3.11	W2 Pretreatment	Boiler Water Pretreatment	10
3.12	P1 Operation	Pump Designs & Operation	10
3.13	P2 Calculation	Pump Head Calculations	10
3.14	Welding	Welding Procedures & Inspection	15
3.15	Pressure Vessels	Pressure Vessels	15
<b>Total</b>	<b>15 sections</b>	<b>15 Subjects</b>	<b>150</b>