

FACT SHEET

ALIGNMENT OF MOM AUTHORISED EXAMINER REGISTRATION FRAMEWORK TO PROFESSIONAL ENGINEERS BOARD'S SPECIALIST PROFESSIONAL ENGINEER SCHEME

BACKGROUND

Ministry of Manpower (MOM) Authorised Examiners (AE)

1. Under the Workplace Safety and Health (WSH) Act, statutory equipment such as lifting machines and pressure vessels are required to be examined and certified safe by MOM AE. An AE must be a Professional Engineers (PE) and approved by the Commissioner for Workplace Safety and Health to carry out inspections of these statutory equipment. Applicants for AE must meet the following criteria:

- a. PE in the field of Mechanical Engineering with a valid Practising Certificate issued by Professional Engineers Board (PEB) and;
- b. At least 5 years of experience in the relevant field, e.g. Pressure Vessel (PV) or Lifting Equipment (LE); and
- c. Familiar with the relevant codes and standards, as well as the inspection criteria for the equipment.

Applicants will need to pass an interview conducted by MOM.

PEB's Specialist Professional Engineer (SPE) scheme

2. PEB registers engineers as PE in the branches of civil engineering, mechanical engineering or electrical engineering. In addition, PEB maintains a scheme where PEs practicing in specific areas would be required to be registered as Specialist Professional Engineer (SPE). To be a SPE, a PE would have to submit an application to PEB and undergo a peer evaluation of his competency. SPE are regarded to have higher level of engineering knowledge in that specific field of work.

3. From 1 Jan 2017, PEB will introduce 4 new SPE branches, namely, Lift and Escalator Engineering, Crane Engineering, Access Platform Engineering and Pressure Vessel Engineering. This is in addition to the existing scopes of Geotechnical Engineering and Amusement Ride Engineering.

Date of issue:	Classification:	Circular No:
18 Nov 2016, amended 28 Nov 2016	Authorised Examiner	OSHD/ SPECS/ESB/AE/01-2016

Alignment of MOM AE Registration Framework to SPE Scheme

4. With the introduction of the new SPE branches, MOM will recognise SPE in the relevant branch as qualified to be an AE in the corresponding field of work. From 1 Jan 2017, all new AE applicants must be registered as a SPE in the relevant branch. In view SPEs from these branches are assessed to be equipped with the knowledge and skills to carry out specialised engineering work such as testing and examining of pressure vessels or lifting equipment, they may be approved by the Commissioner for WSH without the need for further assessment. The mapping of the SPE branches to the approved equipment that AE can test and examine is in Annex A.

5. Existing AEs must be registered as SPE in the relevant branch by 31 Dec 2017. PEB may approve their registration as SPE without requiring them to take further examinations or professional interviews. Summary of the requirement can be found in Annex B. Please refer to the Professional Engineers (Amendment) Rules 2016 for the complete requirements.

Date of issue:	Classification:	Circular No:
18 Nov 2016, amended 28 Nov 2016	Authorised Examiner	OSHD/ SPECS/ESB/AE/01-2016

Annex A

Mapping of the Specialist Professional Engineering branches to the approved equipment that
 Authorised Examiners can test and examine

s/n	Authorised Engineers with Specialist Professional Engineer registration in:	Equipment approved for testing and examination under MOM's safety and health regulatory framework :	Corresponding equipment classification code under MOM's safety and health regulatory framework :
1	Crane engineering	Lifting gear, Lifting appliances, Derrick, Fixed crane, Mobile crane, Piling frame, Other lifting machine	<p><u>Lifting appliances</u></p> <p>- 301, 302, 303, 304, 399</p> <p><u>Derrick crane</u></p> <p>- 401</p> <p><u>Fixed crane</u></p> <p>- 501, 502, 511, 512, 521, 522, 551, 552, 561, 562, 563, 599</p> <p><u>Mobile crane</u></p> <p>- 601, 602, 611, 612, 621, 622, 641, 642, 649, 631, 632, 633, 638, 639, 651, 652, 661, 699</p> <p><u>Piling frame</u></p> <p>- 701, 702, 703, 799</p> <p><u>Other lifting machine</u></p> <p>- 901, 902, 903, 904, 905, 906, 907, 999</p> <p><u>Lifting gear</u></p>

Date of issue:	Classification:	Circular No:
18 Nov 2016, amended 28 Nov 2016	Authorised Examiner	OSHD/ SPECS/ESB/AE/01-2016

2	Access platform engineering	Lift (rack & pinion), Hoists, lifting platform	<u>Lift</u> - 102 <u>Hoist</u> - 201, 202, 203, 209 <u>Lifting platform</u> - 801, 802, 803, 804, 805, 806, 851, 852, 853, 854, 855, 890, 899
3	Pressure Vessel Engineering	Air receiver, Steam receiver, Refrigeration plant pressure receiver, Steam boiler, Steam piping; and conducting fabrication survey for any pressure vessel	Not Applicable
4	Lift and Escalators Engineering	Lift (except by rack & pinion)	<u>Lift</u> - 101, 103, 109

Date of issue:	Classification:	Circular No:
18 Nov 2016, amended 28 Nov 2016	Authorised Examiner	OSHD/ SPECS/ESB/AE/01-2016

Annex B

Requirements for Professional Engineers applying for Specialist Professional Engineer

To apply for Specialist Professional Engineering branch in :	For existing Authorised Examiner (AE) with relevant scope:	For a new applicant or Authorised Examiner (AE) without relevant scope :
<p>Crane engineering</p>	<p>PE (Mechanical); and</p> <p>Existing AE* for lifting machine that includes any crane, crab, winch, teagle, runway, transporter, piling frame or piling machine; and</p> <p>To submit application for registration as a specialist professional engineer to PEB before 1 January 2018.</p> <p><i>*Existing AE who currently approved with any of the scope below:</i></p> <p><u>Derrick crane</u></p> <p>- 401</p> <p><u>Fixed crane</u></p> <p>- 501, 502, 511, 512, 521, 522, 551, 552, 561, 562, 563, 599</p> <p><u>Mobile crane</u></p> <p>- 601, 602, 611, 612, 621, 622, 641, 642, 649, 631, 632, 633, 638, 639, 651, 652, 661, 699</p> <p><u>Piling frame</u></p> <p>- 701, 702, 703, 799</p> <p><u>Other lifting machine</u></p> <p>- 901, 902, 903, 904, 905, 906, 907, 999</p>	<p>The applicant is required to satisfy the following sets of conditions:</p> <ol style="list-style-type: none"> 1) PE (Mechanical); 2) Not less than 5 years experience in crane engineering, of which at least 3 years of such experience was obtained whilst practising as a registered PE in Singapore; and 3) Passed a specialist registration examination on crane engineering conducted by PEB.

Date of issue:	Classification:	Circular No:
18 Nov 2016, amended 28 Nov 2016	Authorised Examiner	OSHD/ SPECS/ESB/AE/01-2016

<p>Access platform engineering</p>	<p>PE (Mechanical); and</p> <p>Existing AE* for (a) hoist or lift; or (b) lifting machine that includes any work platform or suspended scaffold capable of being raised or lowered by climbers, winches or other powered device; and</p> <p>To submit application for registration as a specialist professional engineer to PEB before 1 January 2018.</p> <p><i>* Existing AE who currently approved with any of the scope below:</i></p> <p><u>Lift</u></p> <p>- 101, 102, 103, 109</p> <p><u>Hoist</u></p> <p>- 201, 202, 203, 209</p> <p><u>Lifting platform</u></p> <p>- 801, 802, 803, 804, 805, 806, 851, 852, 853, 854, 855, 890, 899</p> <p>-</p>	<p>The applicant is required to satisfy the following sets of conditions:</p> <ol style="list-style-type: none"> 1) PE (Mechanical); 2) Not less than 5 years experience in crane engineering, of which at least 3 years of such experience was obtained whilst practising as a registered PE in Singapore; and 3) Passed a specialist registration examination on access platform engineering conducted by PEB.
<p>Pressure vessel engineering</p>	<p>PE (Mechanical); and</p> <p>Existing AE* for pressure vessel; and</p> <p>To submit application for registration as a specialist professional engineer to PEB before 1 January 2018.</p> <p><i>* Existing AE who currently approved with any of the scope below:</i></p> <p>- Air receiver, Steam receiver, Refrigeration plant pressure receiver, Steam boiler, Steam piping, Fabrication</p>	<p>The applicant is required to satisfy the following sets of conditions:</p> <ol style="list-style-type: none"> 1) PE (Mechanical); 2) Not less than 5 years experience in crane engineering, of which at least 3 years of such experience was obtained whilst practising as a registered PE in Singapore; and 3) Passed a specialist registration examination on pressure vessel engineering conducted by PEB.

Date of issue:	Classification:	Circular No:
18 Nov 2016, amended 28 Nov 2016	Authorised Examiner	OSHD/ SPECS/ESB/AE/01-2016

<p>Lift and escalators engineering</p>	<p>PE (Mechanical) or PE(Electrical); and</p> <p>a) Existing AE* for hoist or lift or</p> <p>b) Existing AE** for lifting machine but required to pass a specialist registration examination on lift and escalator engineering conducted by PEB; and</p> <p>To submit application for registration as a specialist professional engineer to PEB before 1 January 2018.</p> <p><i>** Existing AE who currently approved with any of the scope below:</i></p> <p><u>Lift</u></p> <p>- 101, 102, 103, 109</p> <p><u>Hoist</u></p> <p>- 201, 202, 203, 209</p> <p><i>** Existing AE who currently approved with any of the scope below:</i></p> <p><u>Derrick crane</u></p> <p>- 401</p> <p><u>Fixed crane</u></p> <p>- 501, 502, 511, 512, 521, 522, 551, 552, 561, 562, 563, 599</p> <p><u>Mobile crane</u></p> <p>- 601, 602, 611, 612, 621, 622, 641, 642, 649, 631, 632, 633, 638, 639, 651, 652, 661, 699</p> <p><u>Piling frame</u></p> <p>- 701, 702, 703, 799</p> <p><u>Lifting platform</u></p> <p>- 801, 802, 803, 804, 805, 806, 851, 852, 853, 854, 855, 890, 899</p> <p><u>Other lifting machine</u></p> <p>- 901, 902, 903, 904, 905, 906, 907, 999</p>	<p>The applicant is required to satisfy the following sets of conditions:</p> <ol style="list-style-type: none"> 1) PE (Mechanical) or PE(Electrical); 2) Not less than 5 years experience in crane engineering, of which at least 3 years of such experience was obtained whilst practising as a registered PE in Singapore; 3) Passed a training course conducted by the BCA on lift & escalator engineering; and 4) Passed a specialist registration examination on lift and escalator engineering conducted by PEB
---	---	--

Date of issue:	Classification:	Circular No:
18 Nov 2016, amended 28 Nov 2016	Authorised Examiner	OSHD/ SPECS/ESB/AE/01-2016