



September 2017 Examinations

Electrical Workers Registration Board



1. Overview – September 2017 examinations

	Number of candidates sitting	Number of candidates who passed	Pass rate %	Median score	Average score
Electrical Appliance Serviceperson (EAS)	47	41	87	78	76.5
Electrical Appliance Serviceperson (Qualified) (EASQ)					
Electrical Service Technician (EST)	147	97	66	66.5	64
Electrician Regulations (ER)	7	7	100	78.5	76
Electrician Theory (ET)					
Electrical inspector (EI)					
Electrical Installer (EIN)					
Associated Tradesperson (AT)	17	17	100	82	79
TOTAL	218	162	74	76	73

2. Issues of interest – September 2017

Overall	
Comment	Suggestion or recommendation for Board consideration
<p>The moderation and marking of the examination papers went well.</p> <p>The overall pass rate of 74% compares favorably with the long-run pass-rate of 76% for September examinations</p>	

Electrical Appliance Serviceperson	
Comment	Suggestion or recommendation for Board consideration

<p>The pass rate of 87% is amongst the highest achieved for this examination.</p> <p>6 candidates gained between 90 and 99 marks with one gaining 97 marks and another 98 marks.</p> <p>Candidates generally did well in all questions with the average mark for question 1 being 16 marks and the average marks for questions 2 to 9 ranging between 6.5 marks and 8.5 marks.</p> <p>Marker comments:</p> <ul style="list-style-type: none"> • The exam was very good and focused on areas that an EAS should know. • Some candidates got very high marks and there were only a couple of failures. The high marks gained shows the high quality of tuition being given. • The moderation was very good <p>Three areas where candidates displayed difficulty and where better tuition is required were:</p> <ul style="list-style-type: none"> • Why a PRCD is voltage dependent (Q 7(c)(ii)). • Safety issues relating to using fuse wire in an HRC fuse (Q 8(c)). • Knowledge of the voltages between conductors in an MEN system (Q 9(c)) 	
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Electrical Appliance Serviceperson (Qualified)	
Comment	Suggestion or recommendation for Board consideration
There was no Electrical Appliance Serviceperson (Qualified) examination in September.	

Electrical Service Technician	
Comment	Suggestion or recommendation for Board consideration
<p>The pass rate of 66% is generally consistent with results for this examination.</p> <p>Seven candidates gained 90 marks or more with the highest being 96 marks.</p> <p>Candidates generally did well in questions 1, 2, 3, 3, 4, 5, 6, 8 and 9 with the average mark for question 1 being 13 marks and the average marks for the others ranging between 6 and 7 marks.</p> <p>The average mark for question 7 was 5 marks.</p> <p>Markers comments.</p> <ul style="list-style-type: none"> • A quality paper offering a wide range of questions which tested the ability and knowledge of those who sat it. • Moderation was good with little or no issues arising in marking. • Some candidates had carefully memorized previous marking schedules with little understanding of the meaning of what they had memorized. • Question 7(a) and (b) were generally poorly done. Candidates were "prove-test-proving" before isolating; or not isolating; or not actually testing for isolation. Very few stated where the testing for isolation should take place and some ignored the lockable isolator entirely. 	

Electrician Regulations	
Comment	Suggestion or recommendation for Board consideration
<p>Seven UK candidates sat this examination and all passed. The marks ranged between 66.5 and 85 marks.</p>	

Electrician Theory	
Comment	Suggestion or recommendation for Board consideration
There was no Electrician Theory examination in September.	

Electrical Inspector	
Comment	Suggestion or recommendation for Board consideration
There was no Electrical Inspector examination in September.	

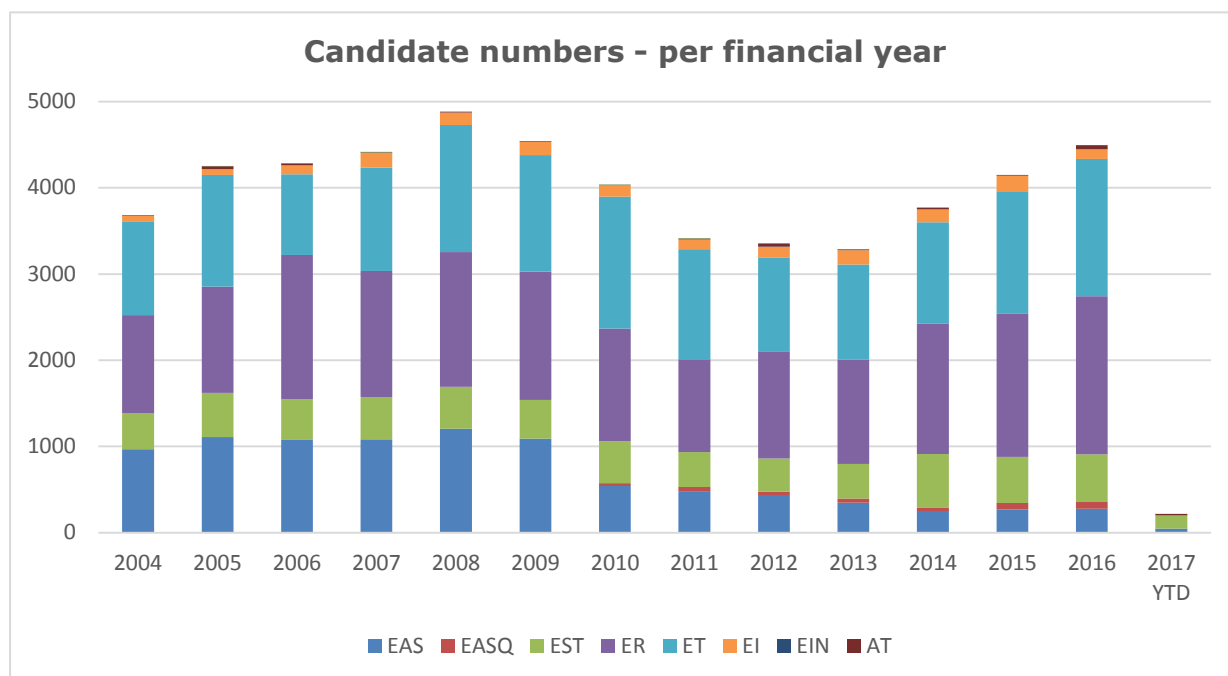
Electrical Installer	
Comment	Suggestion or recommendation for Board consideration
There was no Electrical Installer examination in September.	

Associated Tradesperson	
Comment	Suggestion or recommendation for Board consideration
There were 17 candidates for the two Associated Tradesperson examinations and all passed. Gasfitters and Plumber/Gasfitters sat the examination on 9 September. Plumbers sat the examination on 23 September.	

3. Trends in examination candidate numbers

3.1 Per year

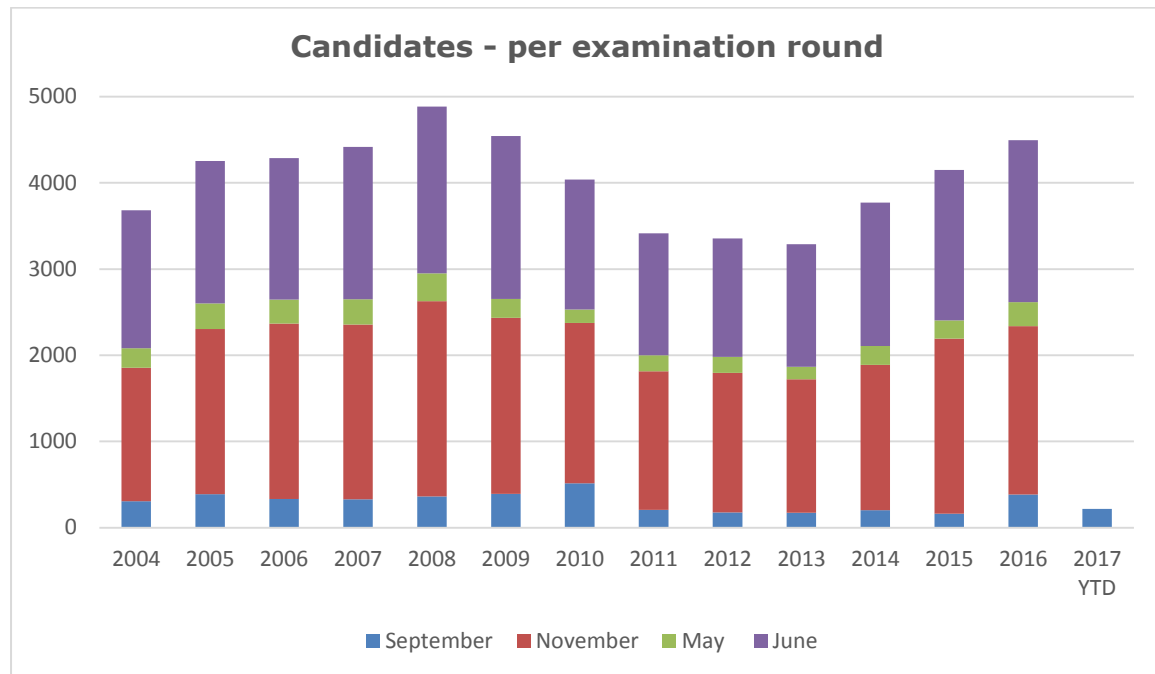
Candidate numbers for the Electrician Regulations and Theory examinations comprised 60% of the yearly total in 2004. This has steadily risen to 76%.



	EAS	EASQ	EST	ER	ET	EI	EIN	AT	ES	Total
2004	969		419	1135	1087	63		10		3683
2005	1110		510	1234	1295	68		35	1	4253
2006	1074		472	1675	937	104		17	9	4288
2007	1084		488	1464	1198	172		3	9	4418
2008	1205		486	1563	1475	146		8	1	4884
2009	1090		448	1490	1351	153		7	6	4545
2010	540	34	487	1308	1530	131	3		7	4040
2011	482	46	407	1076	1277	112	5	1	7	3413
2012	437	37	384	1238	1093	126	4	38		3357
2013	348	48	401	1209	1104	170	5	2		3287
2014	250	42	618	1515	1176	147	4	18		3770
2015	269	74	537	1660	1420	178	3	10		4151
2016	275	87	547	1833	1595	110	3	44		4494
2107 YTD	47		147	7				17		218
Total	9180	368	6351	18407	16538	1680	27	210	40	52801

3.2 Per examination round

Since 2004 candidate numbers in the November and June examinations have comprised between 85% and 91% of the total number sitting in any year. November candidate numbers tend to be slightly higher than June.



	September	November	May	June	Total
2004	308	1547	227	1601	3683
2005	387	1918	295	1653	4253
2006	334	2035	276	1643	4288
2007	330	2027	293	1768	4418
2008	362	2264	326	1932	4884
2009	391	2042	221	1891	4545
2010	513	1861	155	1511	4040
2011	207	1608	185	1413	3413
2012	178	1617	187	1375	3357
2013	173	1550	144	1420	3287
2014	202	1687	218	1663	3770
2015	161	2032	212	1746	4151
2016	383	1955	277	1879	4494
2017 YTD	218				218
Total	4147	24143	3016	21495	52801

4. Trends in candidate performance

This section plots the trends in candidate performance relating to pass rates, median marks and average marks.

For the median marks and average marks, the pass rates have been superimposed to give an indication of how these change with the pass rates.

4.1 All exams

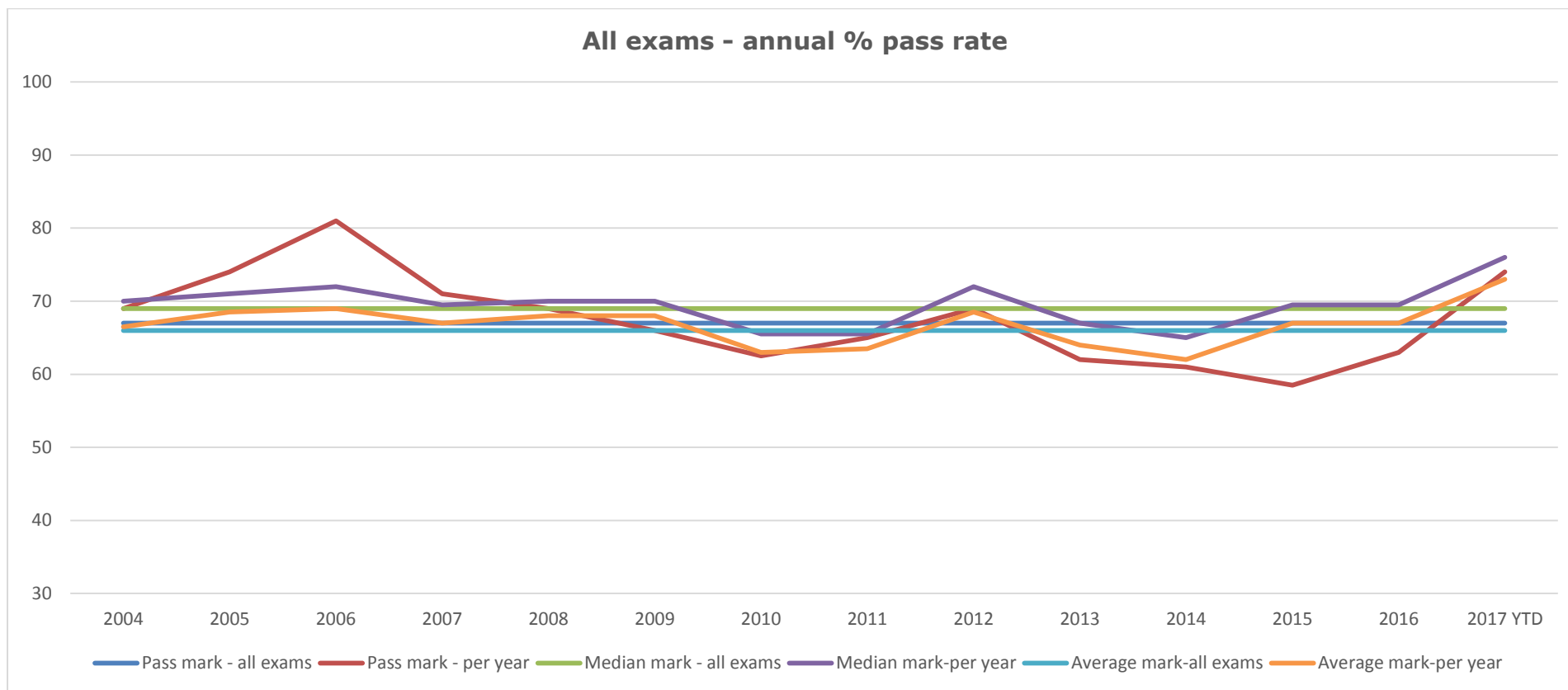
The pass rate for all examinations sat since 2004 is 67%.

All classes of examination, except for Electrician Theory, have overall pass rates at or above 67%. The overall pass rate for Electrician Theory examinations since 2004 is 56.5%.

4.1 All exams

This chart tracks the pass rate, median mark and average mark for all examinations conducted since 2004.

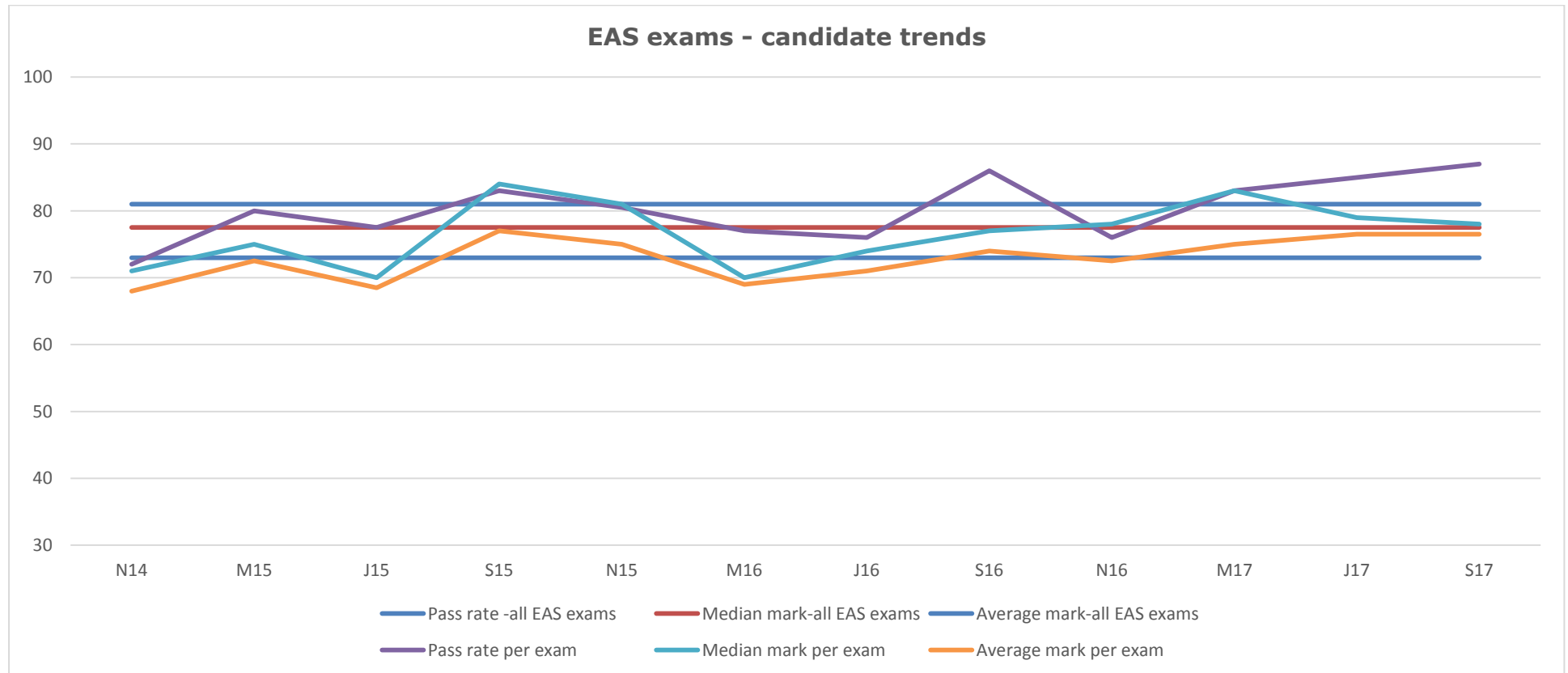
The trends in the pass rate, median mark and average mark are shown for the financial years 2004 to date.



4.2 EAS Examinations

This chart tracks the pass rate, median mark and average mark for all EAS examinations conducted since 2004.

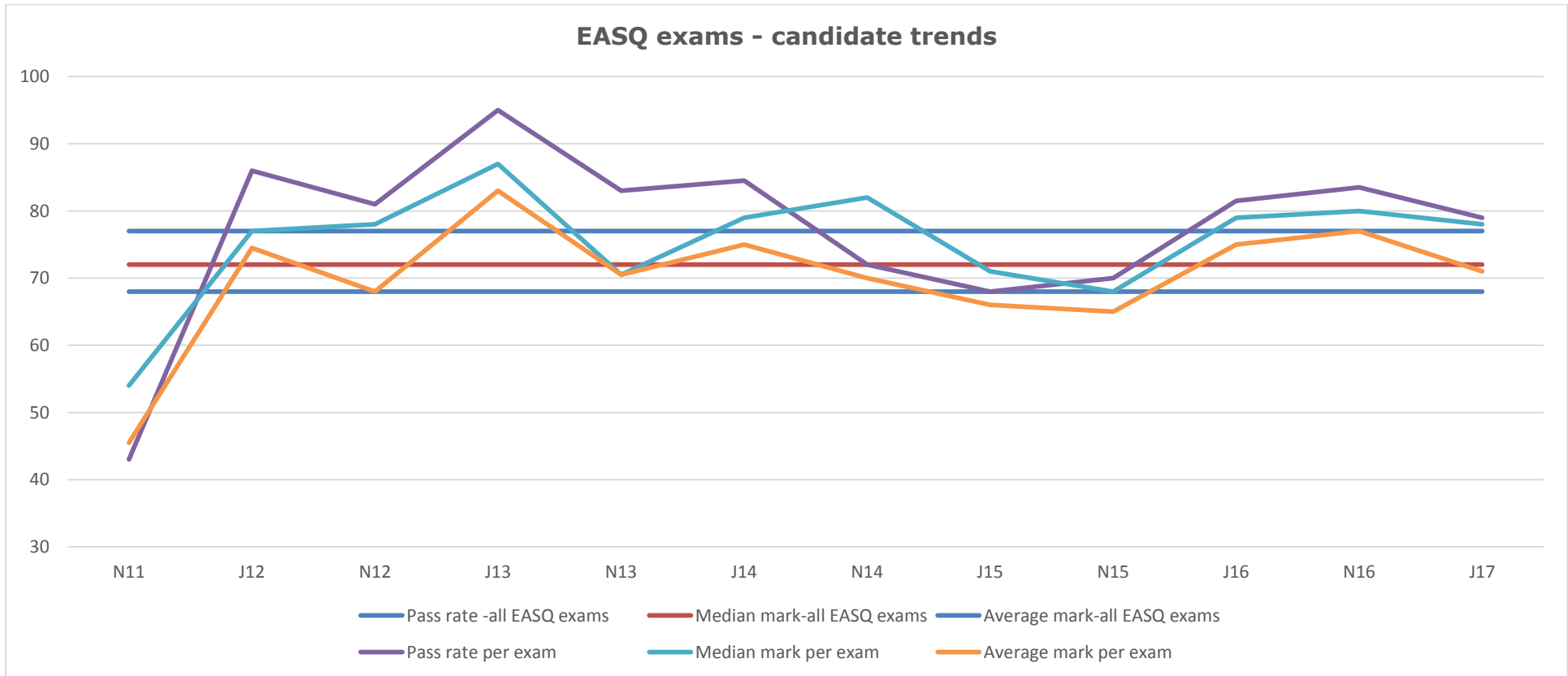
The trends in the pass rate, median mark and average mark are shown for the previous 12 EAS examinations, including the examination that is the subject of this report (if applicable).



4.3 EASQ Examinations

This chart tracks the pass rate, median mark and average mark for all EASQ examinations conducted since 2010.

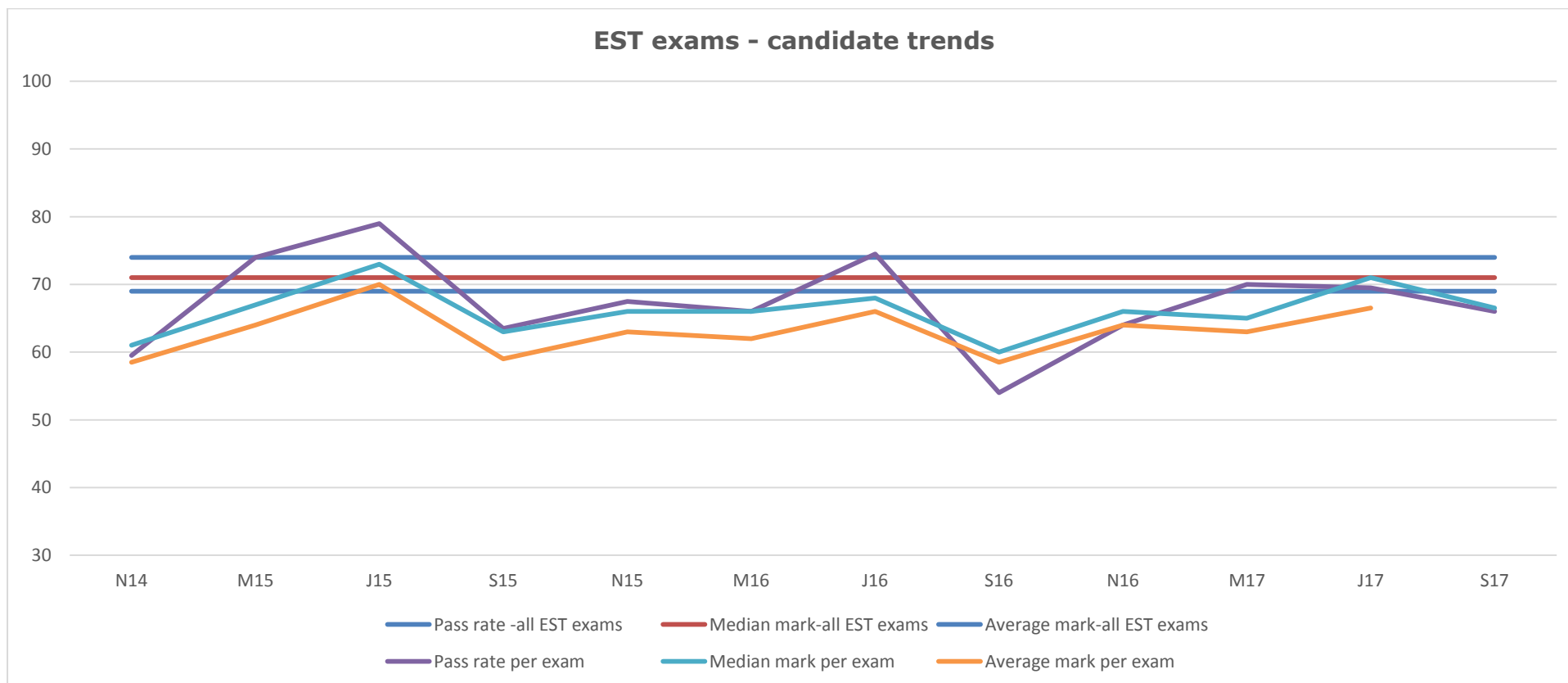
The trends in the pass rate, median mark and average mark are shown for the previous 12 EASQ examinations, including the examination that is the subject of this report (if applicable).



4.4 EST Examinations

This chart tracks the pass rate, median mark and average mark for all EST examinations conducted since 2004.

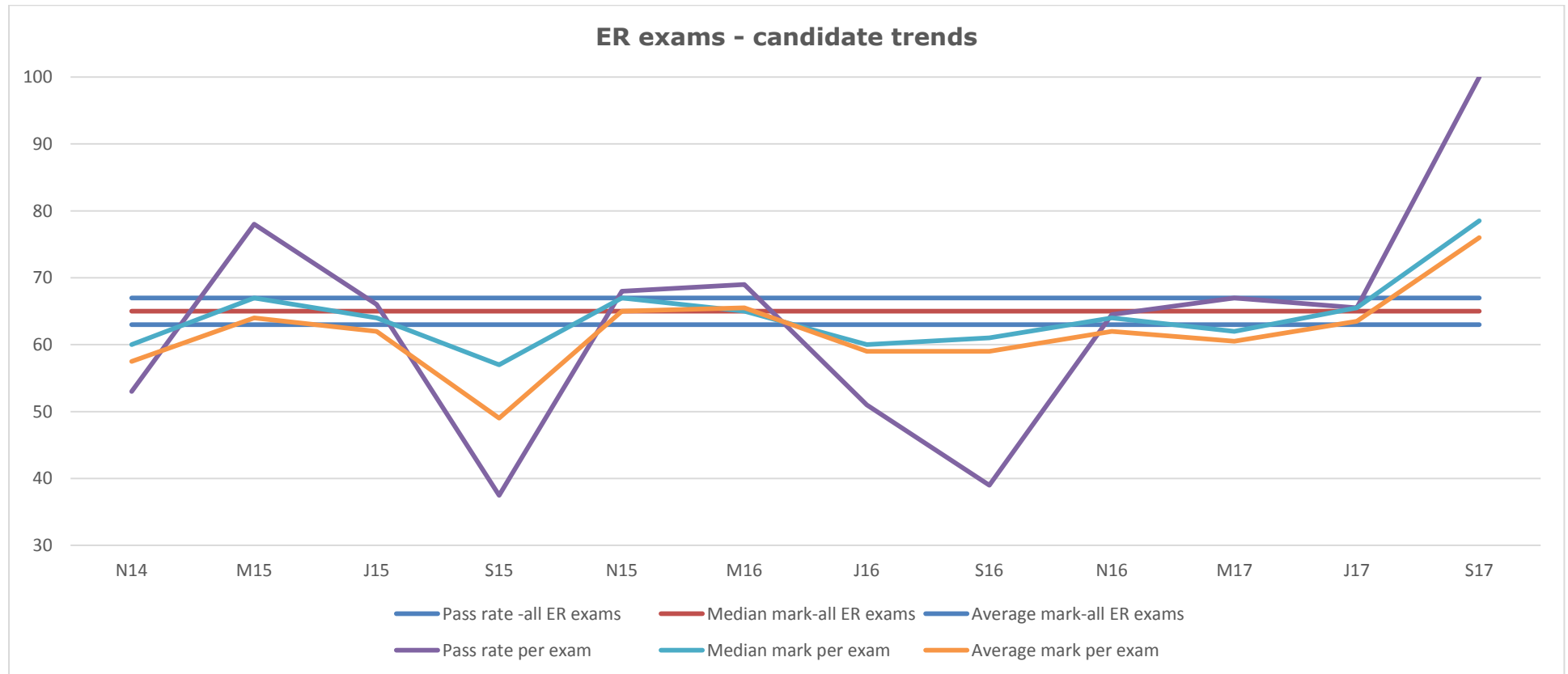
The trends in the pass rate, median mark and average mark are shown for the previous 12 EST examinations, including the examination that is the subject of this report (if applicable).



4.5 ER Examinations

This chart tracks the pass rate, median mark and average mark for all ER examinations conducted since 2004.

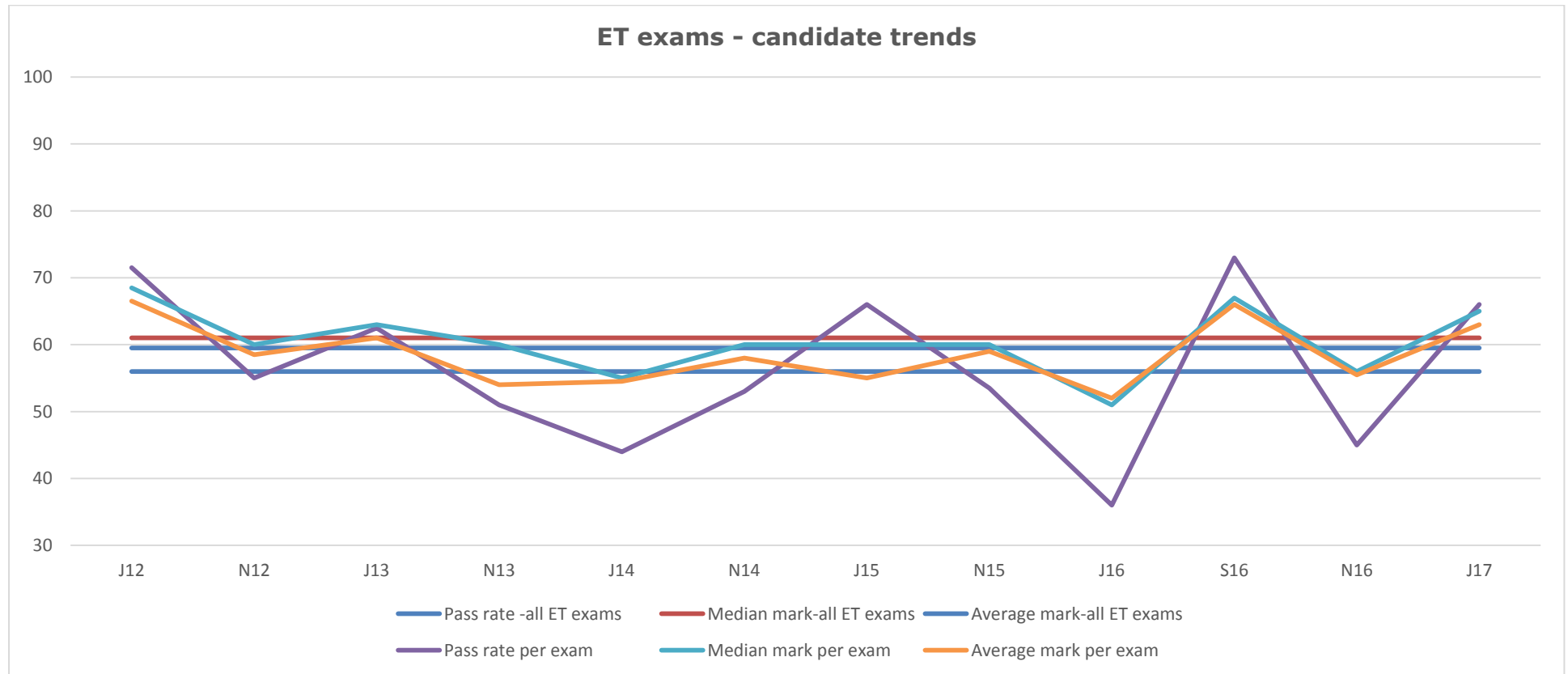
The trends in the pass rate, median mark and average mark are shown for the previous 12 ER examinations, including the examination that is the subject of this report (if applicable).



4.6 ET Examinations

This chart tracks the pass rate, median mark and average mark for all ET examinations conducted since 2004.

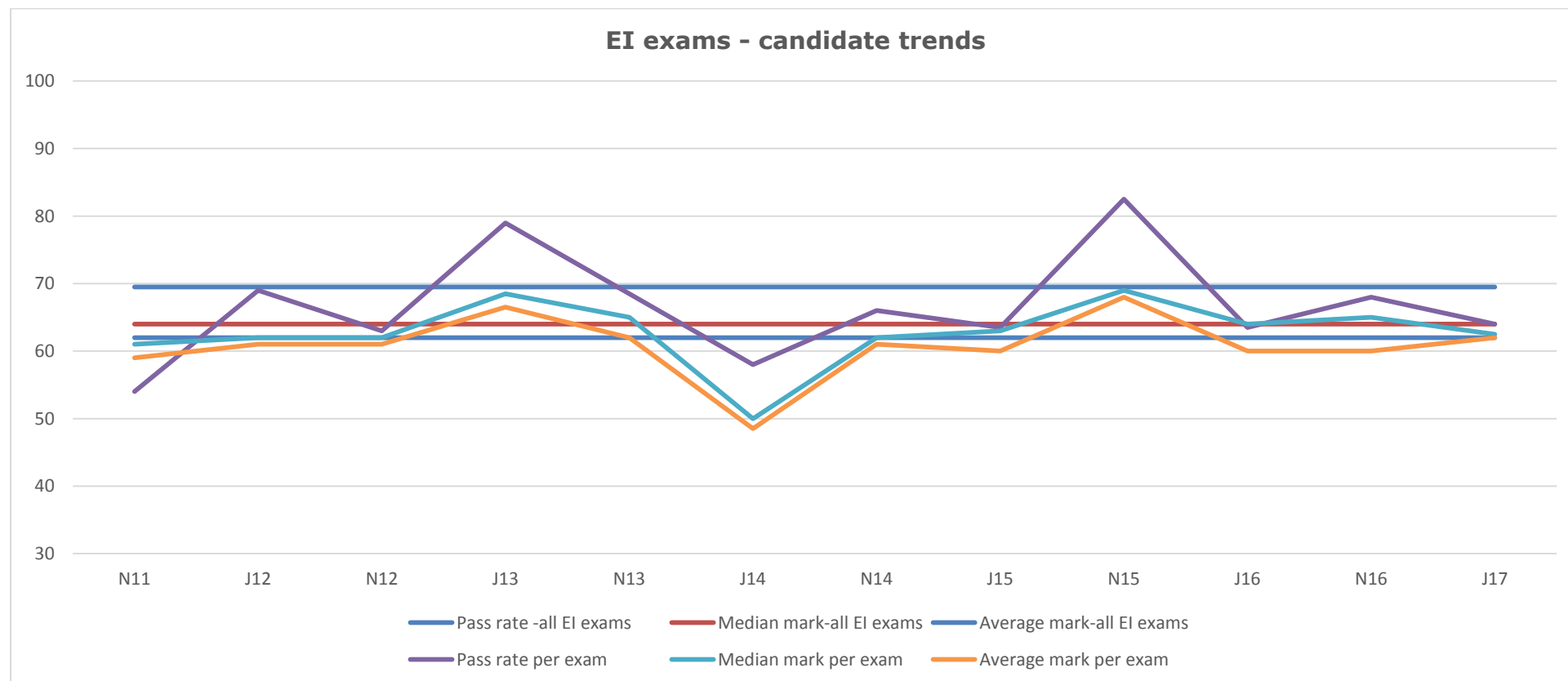
The trends in the pass rate, median mark and average mark are shown for the previous 12 ET examinations, including the examination that is the subject of this report (if applicable).



4.7 EI Examinations

This chart tracks the pass rate, median mark and average mark for all EI examinations conducted since 2004.

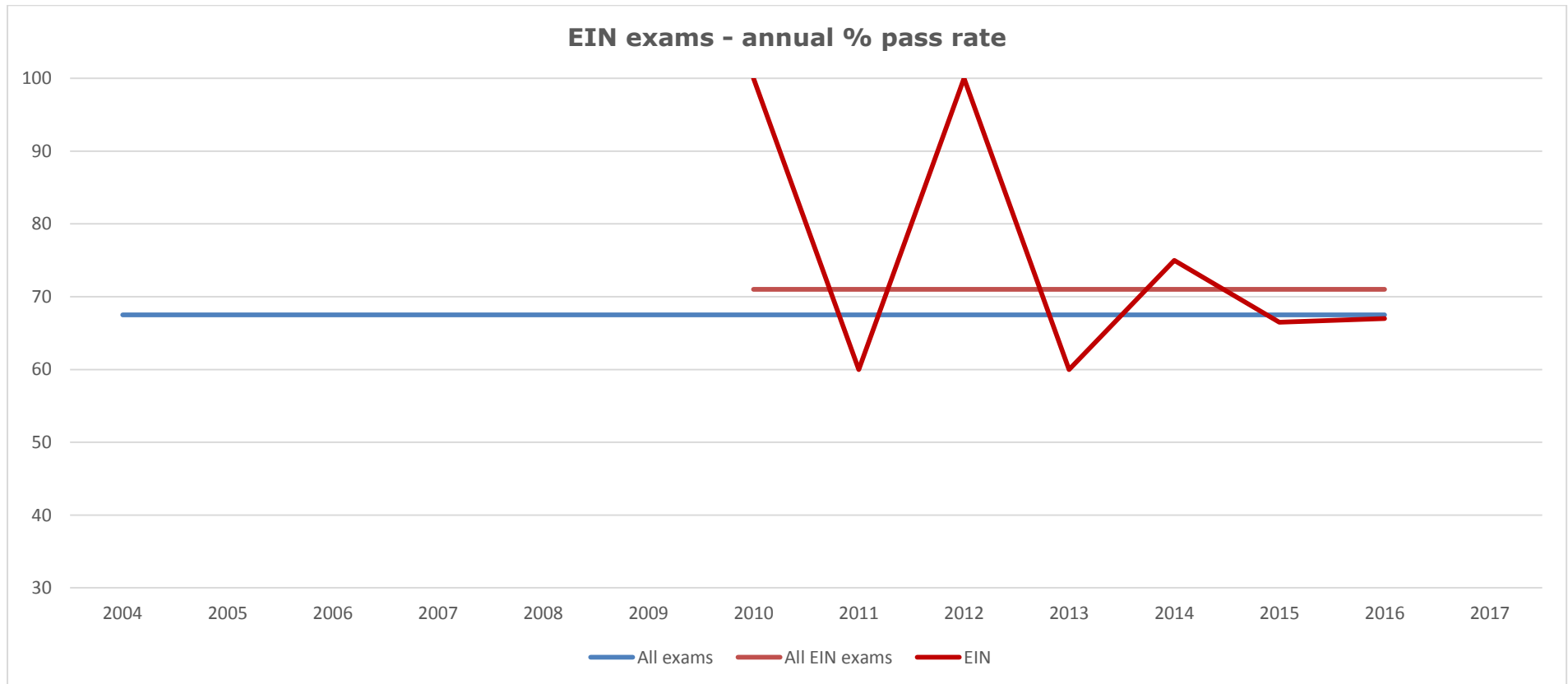
The trends in the pass rate, median mark and average mark are shown for the previous 12 EI examinations, including the examination that is the subject of this report (if applicable).



4.8 EIN Examinations

The pass rate for all exams sat since 2004 is 67.5%. The pass rate for all EIN exams sat since 2010 is 68%.

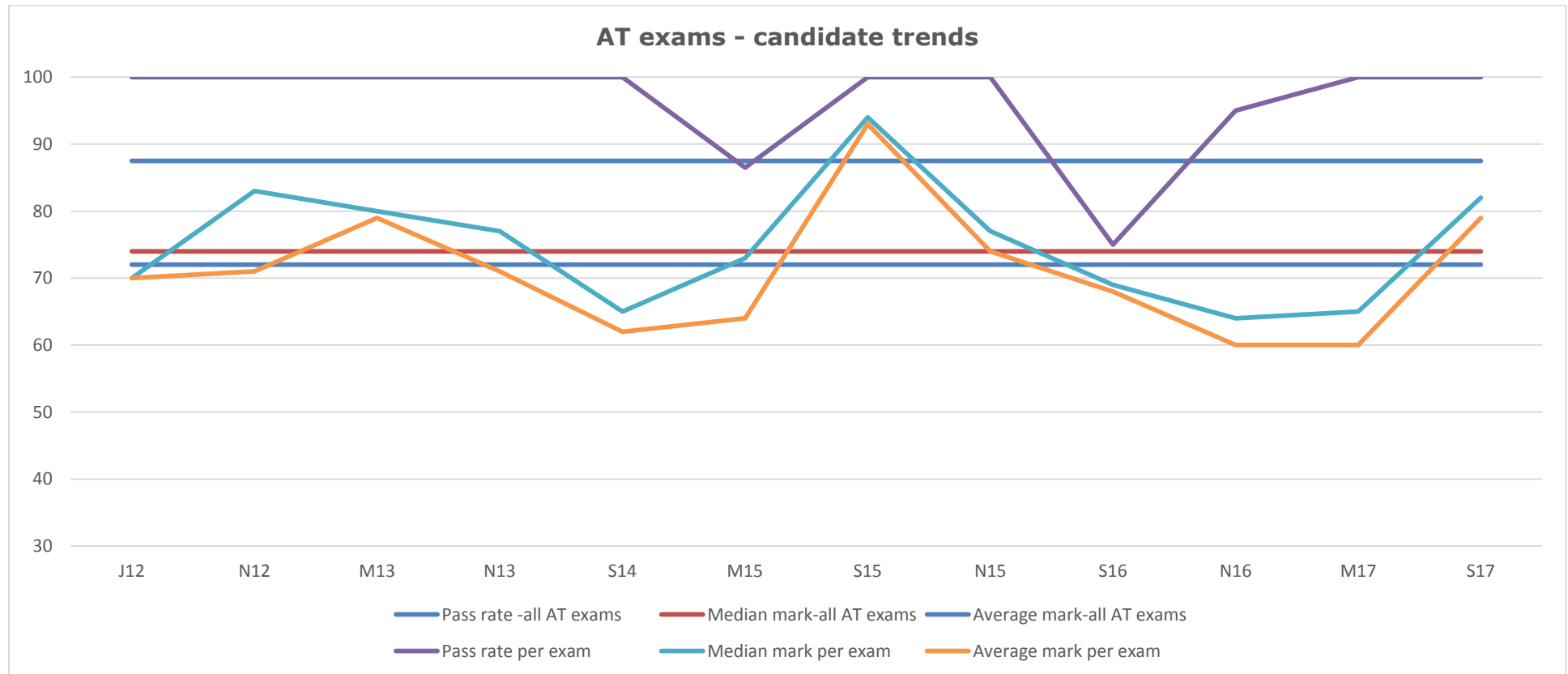
It is not possible to do any meaningful analysis on this examination. Only 25 candidates have sat since 2010.



4.9 AT Examinations

This chart tracks the pass rate, median mark and average mark for all AT examinations conducted since 2004.

The trends in the pass rate, median mark and average mark are shown for the previous 12 AT examinations, including the examination that is the subject of this report (if applicable).



5. Trends in examination centre pass rates

The examination centre pass rate data is derived from the calendar years 2009 to date. The data shown is only for those centres currently operating.

The calendar year is used because:

- (a) This coincides with the academic year.
- (b) New Board examination centre codes are issued each calendar year.

The examination centres shown are:

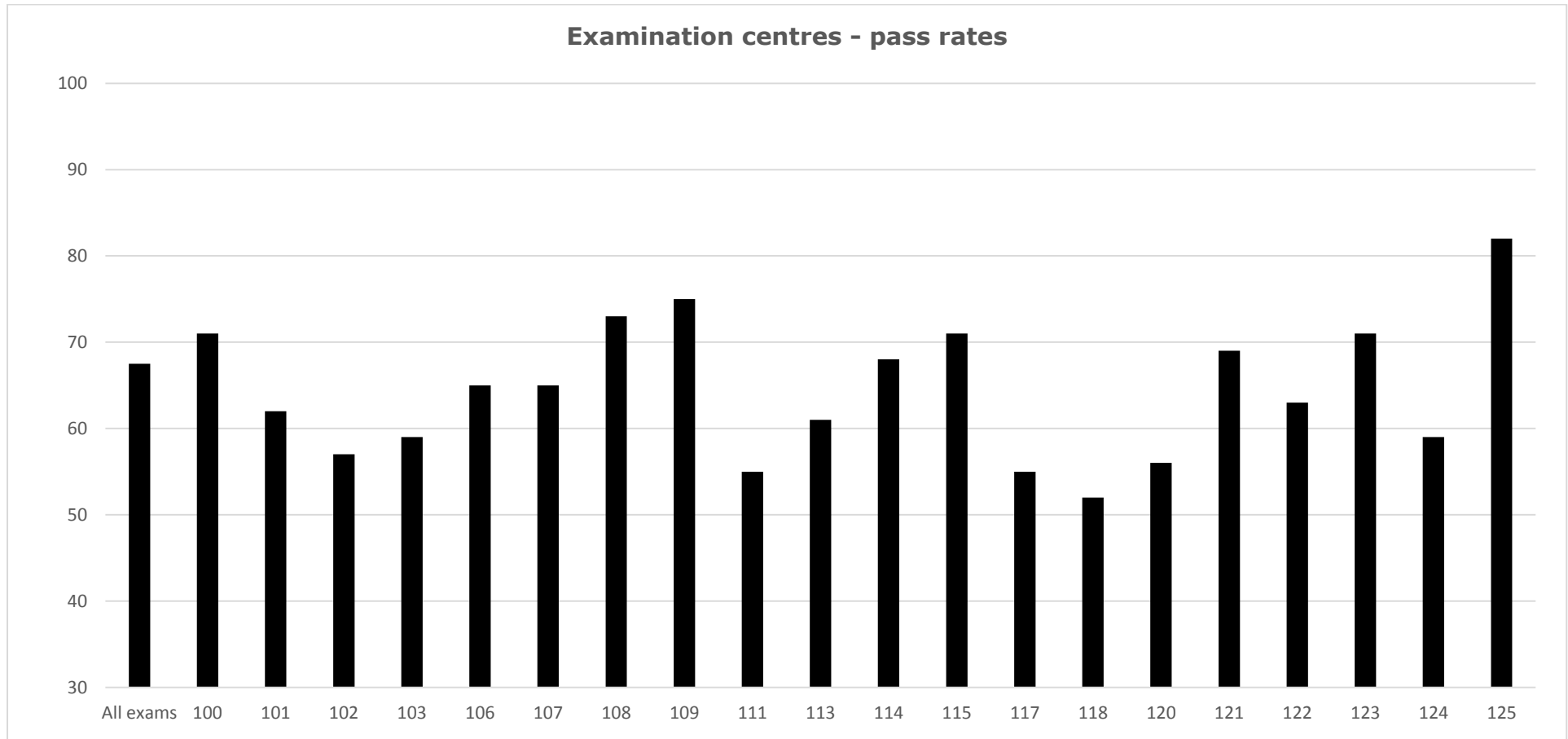
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- * These are centres that operate sporadically, such as the one in the United Kingdom

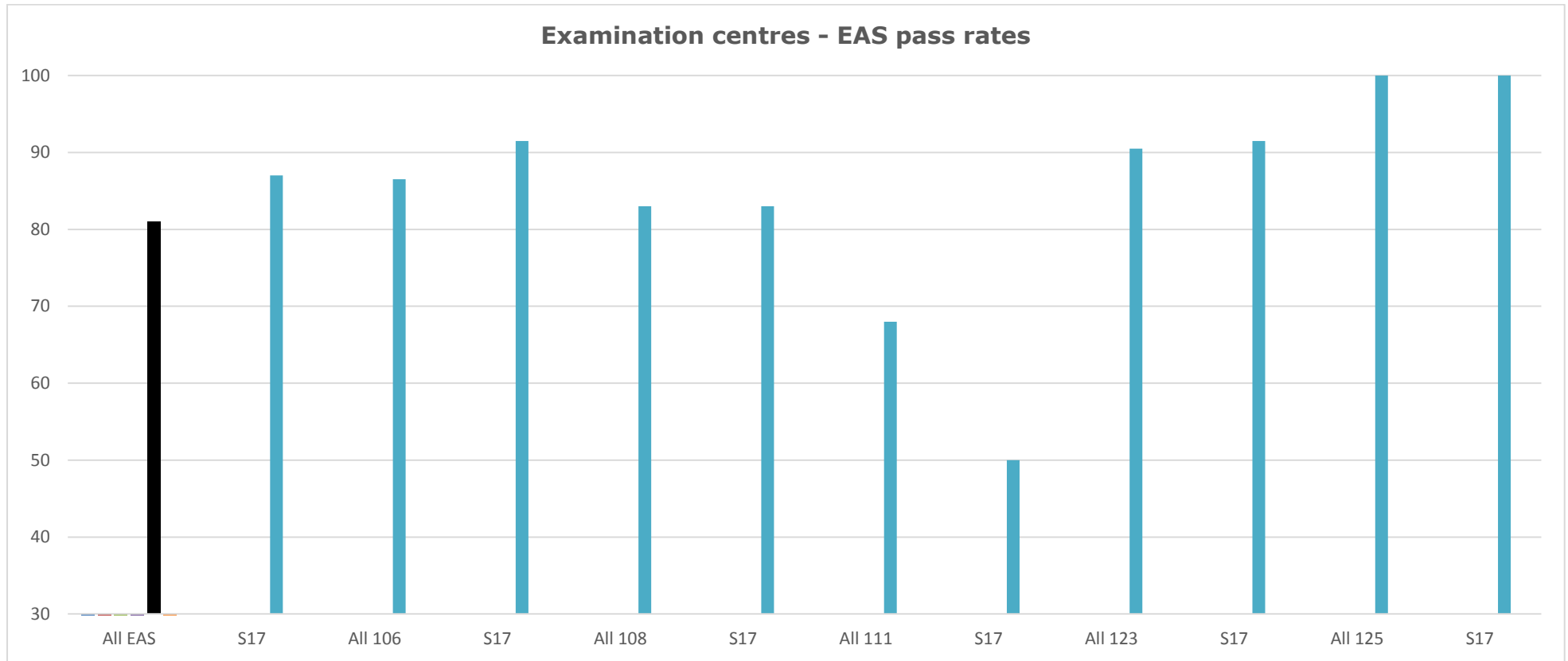
The charts for each individual examination show, in turn:

- The pass rate for all exams of that type.
- The pass rate for the examination in this examination round.
- For each examination centre that had candidates sit in this examination round:
 - * The pass rate for all examinations of that type sat at that centre since 2009 (All xxx).
 - * The pass rate at that centre for the examination in this examination round (M, Y).

5.1 All examinations

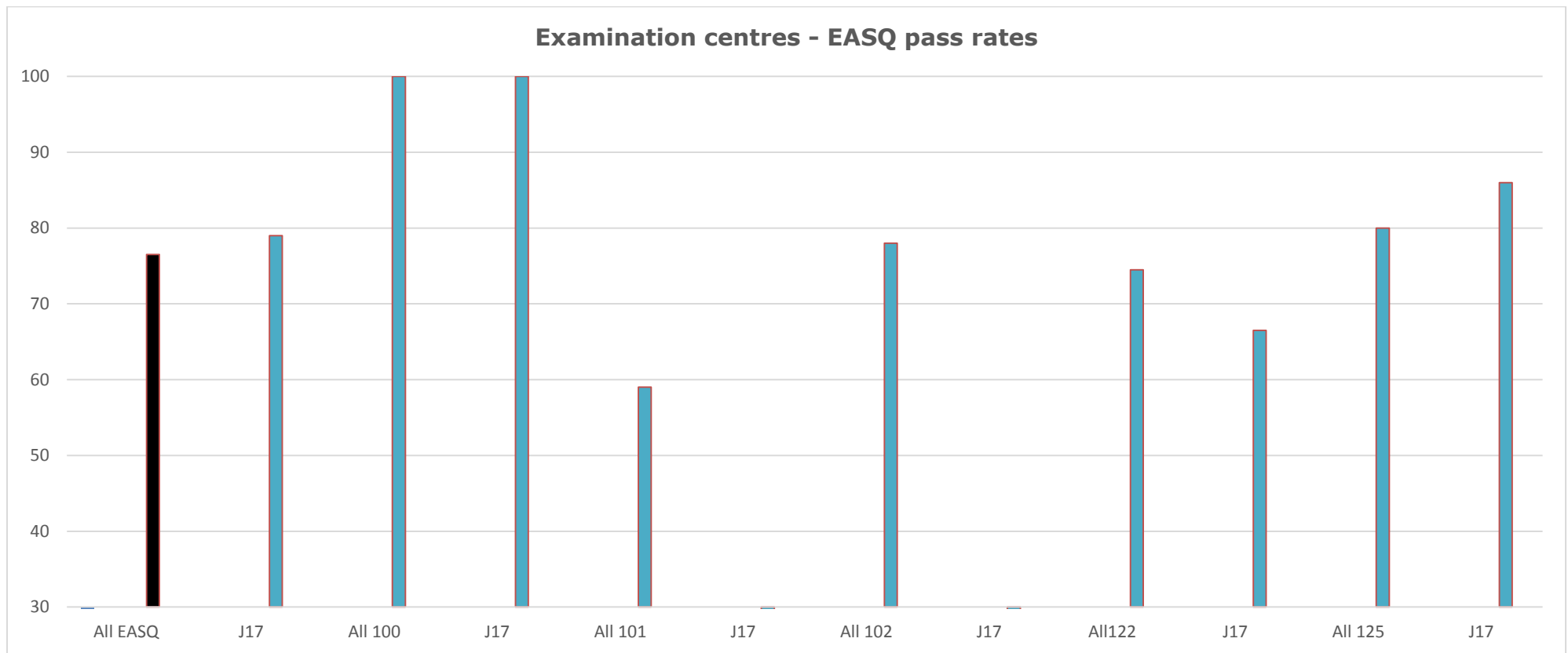


5.2 EAS Examinations

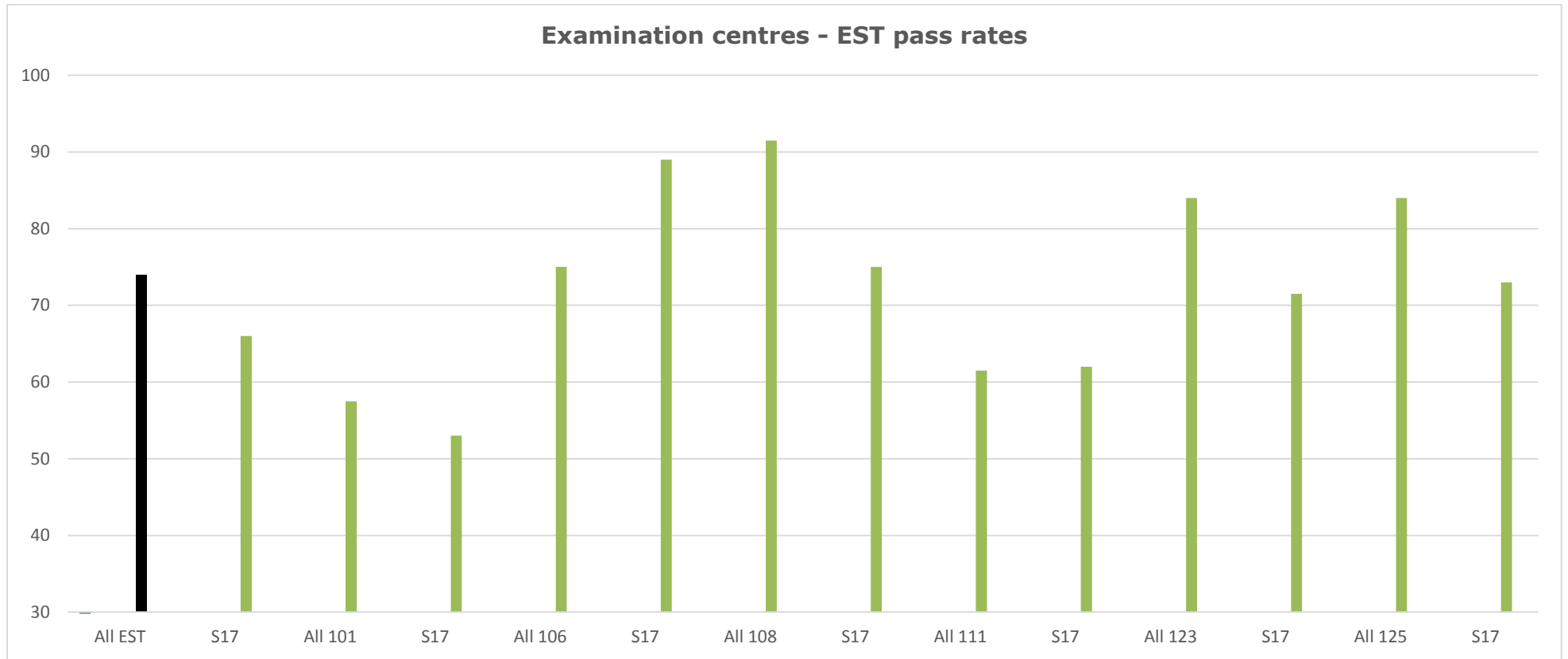


5.3 EASQ Examinations

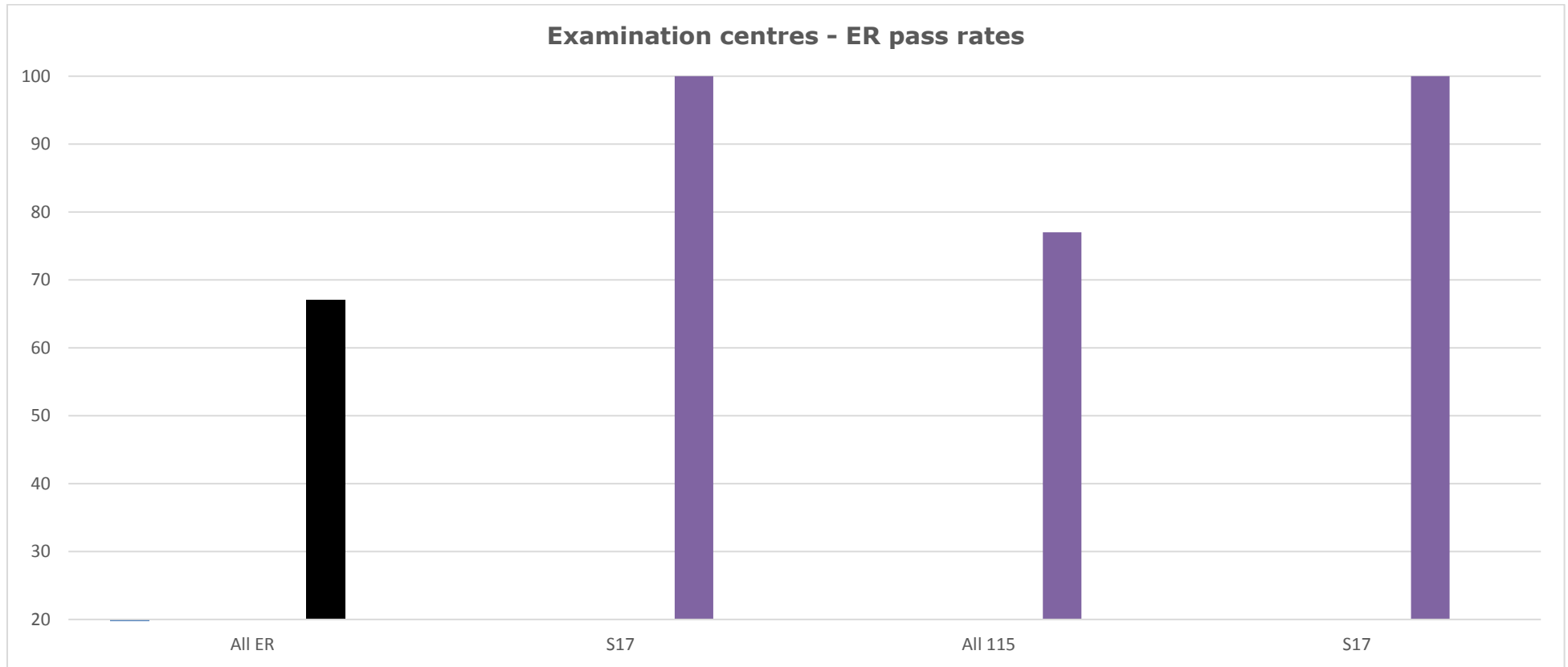
These are the June 2017 statistics. There was no EASQ examination in September 2017.



5.4 EST Examinations

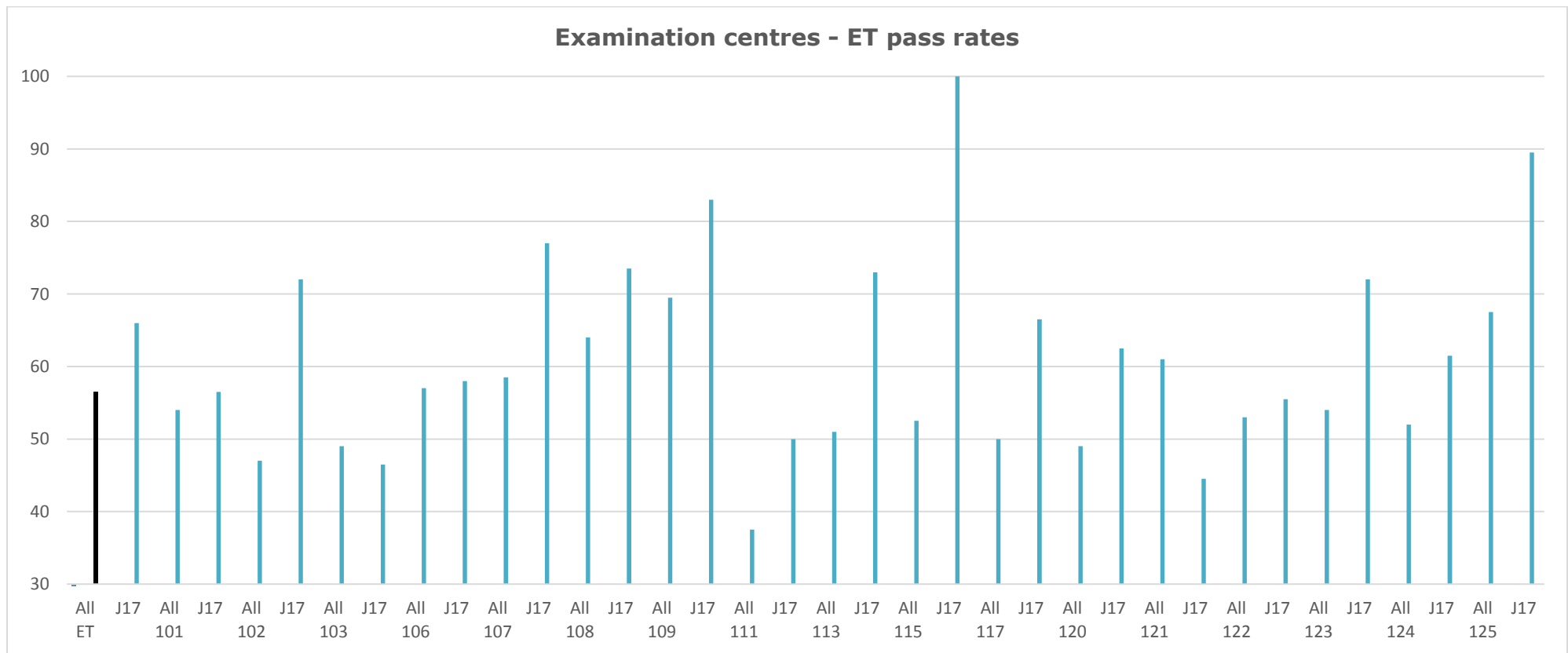


5.5 ER Examinations



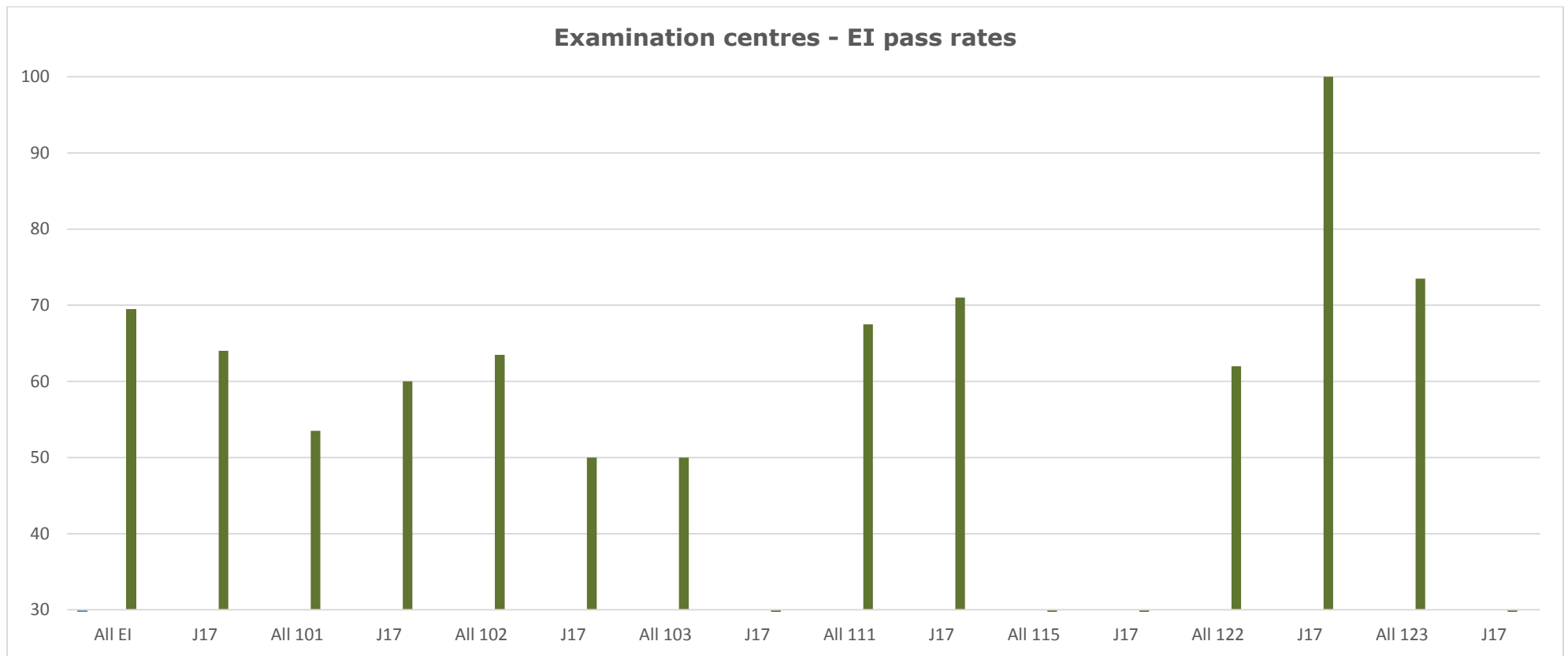
5.6 ET Examinations

These are the June 2017 statistics. There was no ET examination in September 2017.



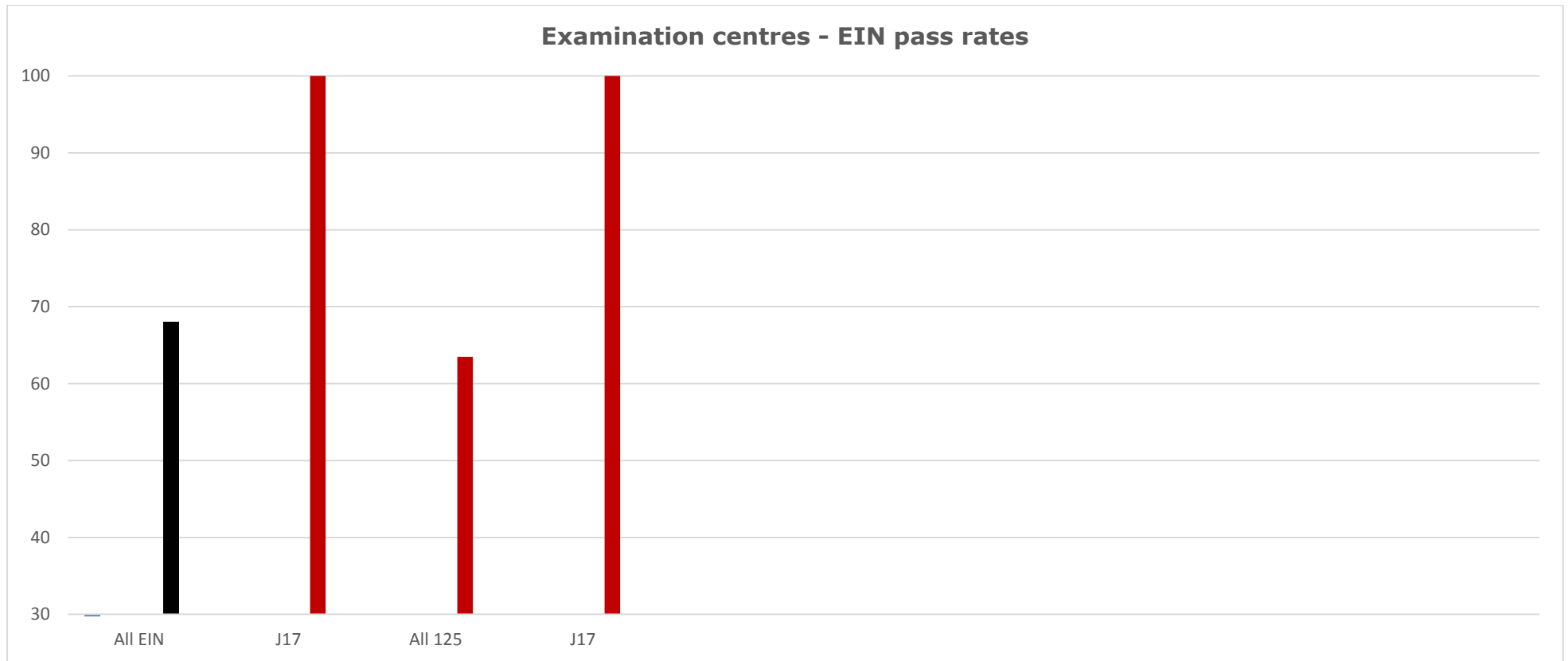
5.7 EI Examinations

These are the June 2017 statistics. There was no EI examination in September 2017.



5.8 EIN Examinations

These are the June 2017 statistics. There was no EIN examination in September 2017.



5.9 AT Examinations

