

Exhibit P8.2: Physics Teachers' Formal Education*

Reported by Physics Teachers

Country	Completed Postgraduate University Degree**		Completed Bachelor's Degree or Equivalent but Not a Postgraduate Degree		Did Not Complete Bachelor's Degree	
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement
France	81 (2.5)	375 (4.4)	19 (2.5)	377 (8.3)	0 (0.3)	~ ~
Italy	14 (2.3)	362 (17.4)	86 (2.3)	384 (7.7)	0 (0.0)	~ ~
Lebanon	71 (2.9)	406 (4.9)	22 (2.3)	423 (7.3)	7 (1.7)	405 (22.5)
Norway	86 (2.8)	506 (4.8)	14 (2.8)	496 (12.7)	0 (0.0)	~ ~
Portugal	27 (4.5)	466 (9.0)	72 (4.6)	467 (5.4)	1 (0.8)	~ ~
Russian Federation	79 (3.5)	510 (8.0)	21 (3.5)	495 (12.8)	0 (0.0)	~ ~
Slovenia	100 (0.0)	531 (2.5)	0 (0.0)	~ ~	0 (0.0)	~ ~
Sweden	73 (4.5)	459 (7.3)	25 (4.5)	456 (11.1)	2 (1.0)	~ ~
United States	r 77 (6.0)	447 (7.7)	23 (6.0)	423 (34.4)	0 (0.0)	~ ~
International Avg.	67 (1.2)	451 (2.8)	31 (1.2)	440 (5.4)	1 (0.2)	405 (22.5)

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS Advanced 2015

* Based on countries' categorizations according to UNESCO's International Standard Classification of Education (Operational Manual for ISCED-2011).

** For example, doctorate, master's, or other postgraduate degree.

() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

A tilde (~) indicates insufficient data to report achievement.

An "r" indicates data are available for at least 70% but less than 85% of the students.