

LSPU - San Pablo City Campus

College of Engineering

Board Exam Passing Rate Predictions

Prediction Year: 2025
Generated: December 04, 2025

Executive Summary

Total Board Exams Analyzed: 4
Average Predicted Change: -6.21 percentage points
Exams with Improving Trends: 1
Exams with Declining Trends: 2
Exams with Stable Performance: 1

Prediction Model: Linear Regression
Model Accuracy: 100.00%

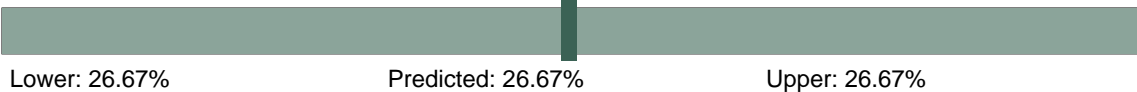
Detailed Predictions

Exam Type	Current	Predicted	Change
Electronics Engineer Licensure Examin...	46.13%	26.67%	-19.46%
Electronics Technician Licensure Exam...	72.72%	53.85%	-18.87%
Registered Electrical Engineer Licens...	35.69%	49.18%	+13.49%
Registered Master Electrician Licensu...	33.33%	33.33%	+0.00%

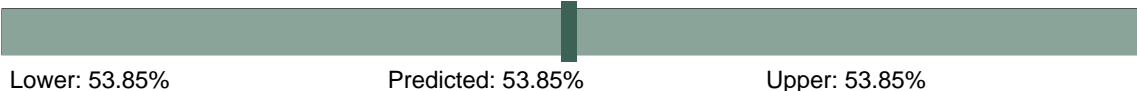
Confidence Intervals (95%)

The following intervals show the range where the actual passing rate is 95% likely to fall:

Electronics Engineer Licensure Examination (ECELE)



Electronics Technician Licensure Exam (ECTLE)

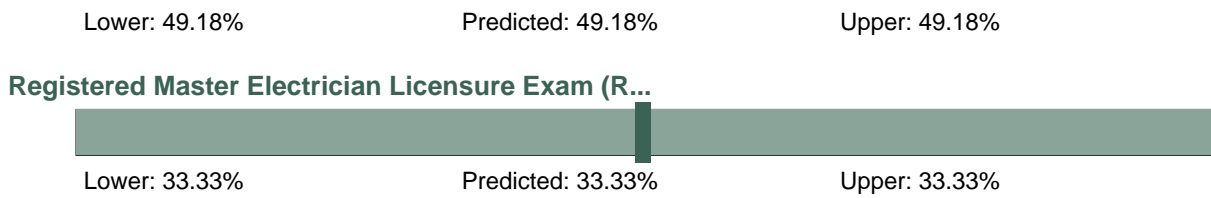


Registered Electrical Engineer Licensure Exam (...)



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Model Information

Algorithm Used:	Linear Regression
Training Date:	December 04, 2025 at 07:26 PM
Model Accuracy (R ² Score):	1.0000
Mean Absolute Error:	0.00%
Cross-Validation Score:	1.0000 (±0.0000)

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Understanding the Predictions

What is a Confidence Interval?

A 95% confidence interval means we are 95% confident that the actual passing rate will fall within the given range. The narrower the interval, the more precise our prediction.

R² Score (Coefficient of Determination)

Measures how well the model fits the data. Values closer to 1.0 indicate better predictions. A score of 0.8 means the model explains 80% of the variation in passing rates.

Mean Absolute Error (MAE)

The average difference between predicted and actual values. Lower is better. An MAE of 5% means predictions are typically within 5 percentage points of actual results.

How to Use These Predictions

These predictions help in planning and resource allocation. If a particular exam shows a declining trend, additional support and preparation programs may be needed.