603 - Final Project Analysis on NYC Civil Service List Certification

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New York Civil Service exam

- A written test for specific positions.
- It is one of the most challenging examinations that require a lot of practice and preparation
- Civil Service eligible lists are valid for at least one year, and up to four years, in accordance with state law.

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Data

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M	ay	5,	202	23

Data Last Updated May 5, 2023

Updated

Metadata Last Updated

March 22, 2023

Date Created

November 16, 2016

Views

Downloads

609K 15.9K

Data Provided by

Department of Citywide

Administrative Services (DCAS) N

Dataset

Owner

NYC OpenData **Dataset Information**

Agency Department of Citywide Administrative Services (DCAS)

Update

Update Frequency Daily

Automation Yes

Date Made Public 12/1/2016

Attachments

☐ Civil Service List Certification Data Dictionary_Nov2016.xlsx

Topics

Category City Government

Tags civil, service, list, title, dcas

What's in this Dataset?

Rows **4.07M**

Columns

21

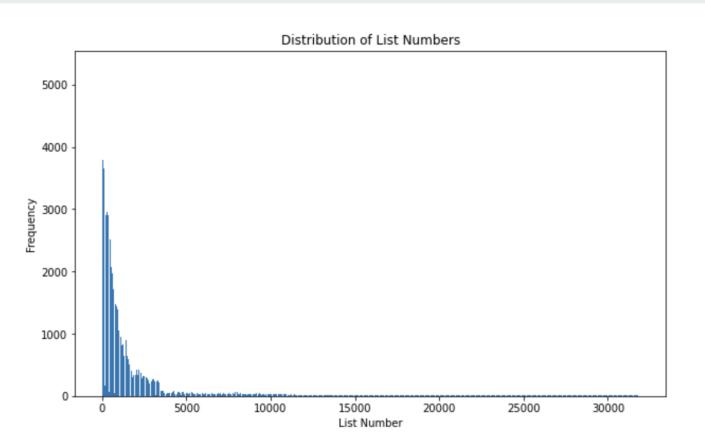
Each row is a

Candidate

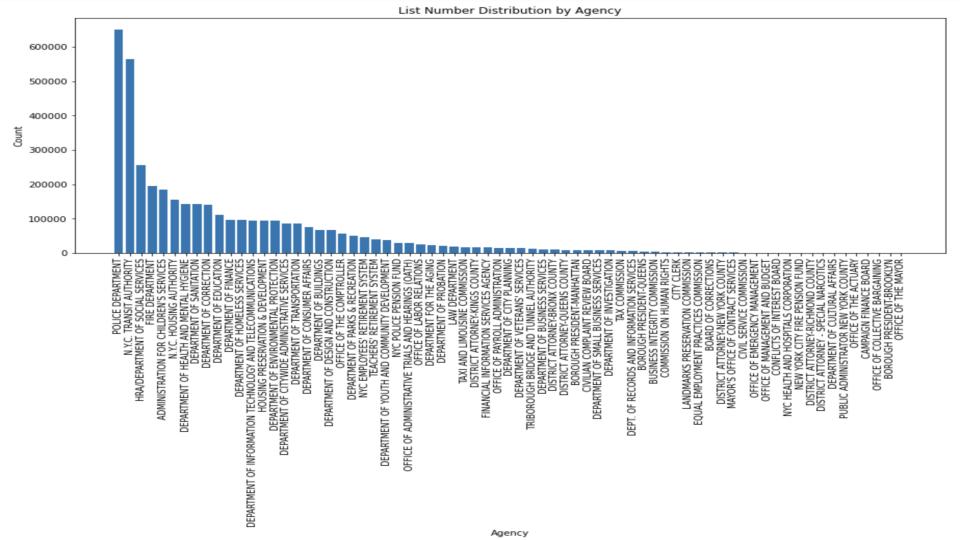
Key Attributes:

- List No (Candidates rank)
- List Agency Desc (Hiring Agency name)
- List Title Desc (Job title)
- Salary
- Cert Date
- Cert Expiration Date
- No Certified
- Provisional Replacement
- No Vacancies

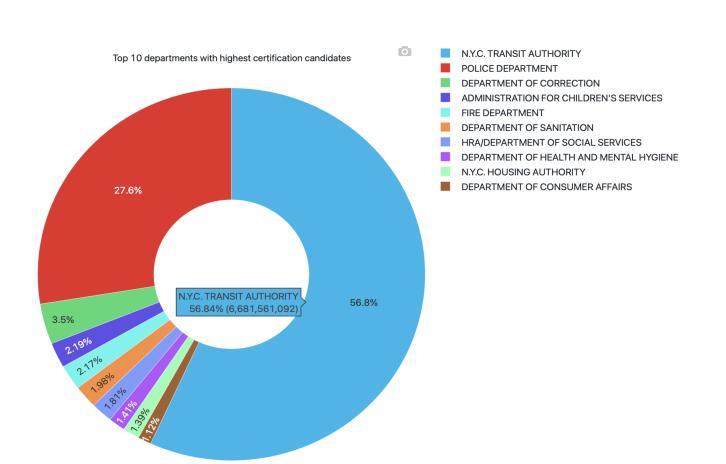
Distribution of List Numbers:

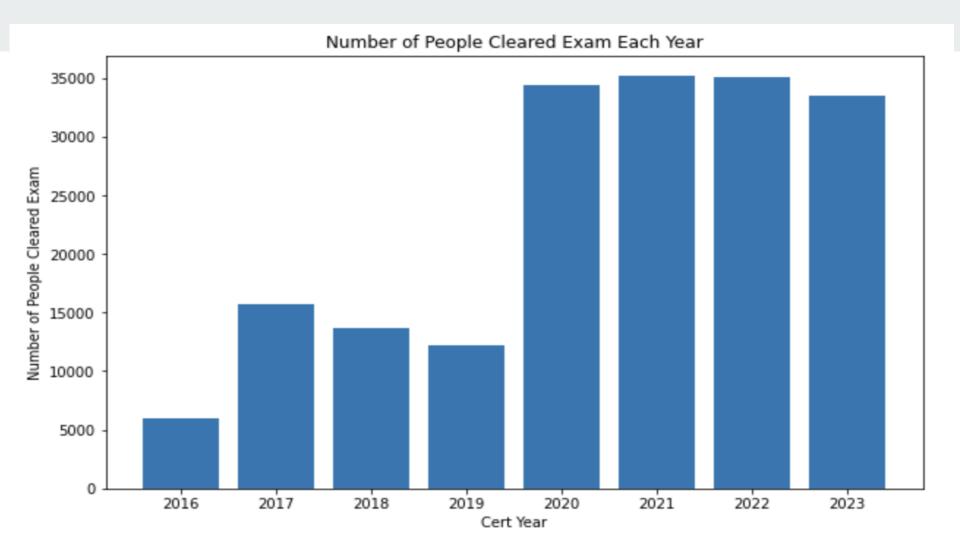


It's observed that individuals with higher ranks have a larger spread in the dataset. This indicates that candidates with higher list numbers tend to have a wider range of positions and job titles available to them. It suggests that individuals with higher ranks have more opportunities and options for employment within the civil service.

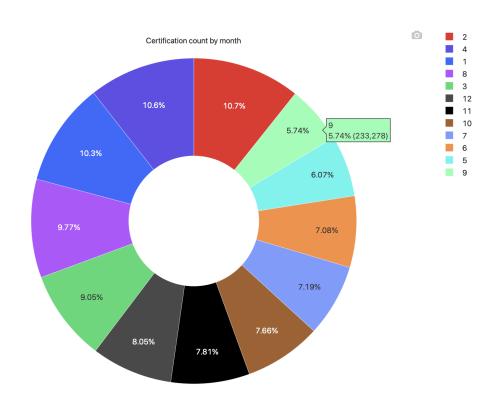


Top 10 agency which received most no.of certifications.

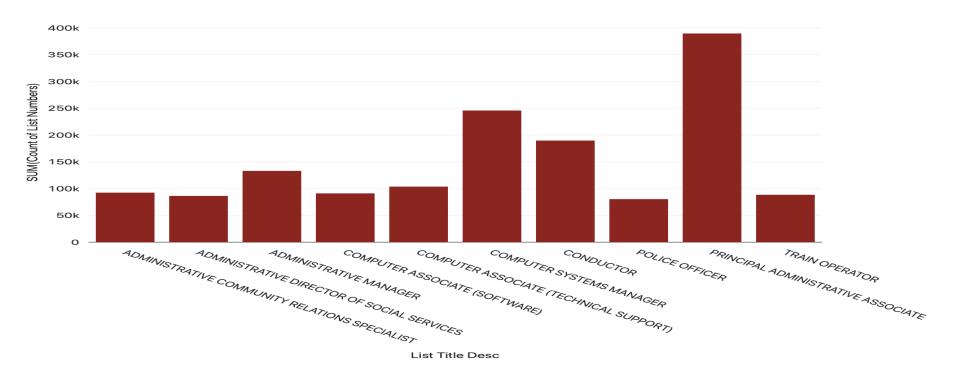




No. of people cleared exam based on month wise

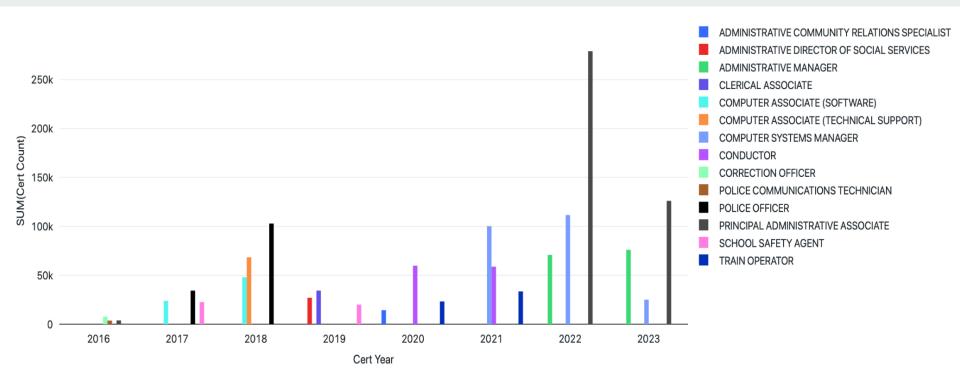


Top 10 departments prefered by most no. of candidates



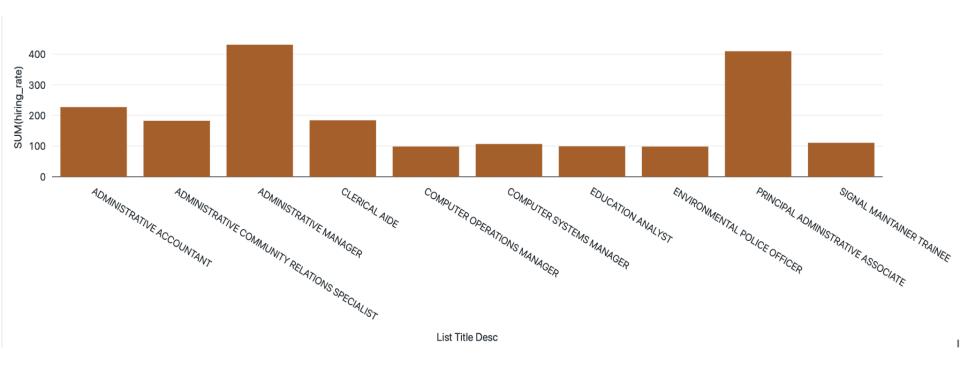
PRINCIPAL ADMINISTRATIVE ASSOCIATE is the most sought-after certification, with over 300,000 candidates obtaining it, highlighting its popularity and potential career prospects.

Top 3 certificates Preferred each year



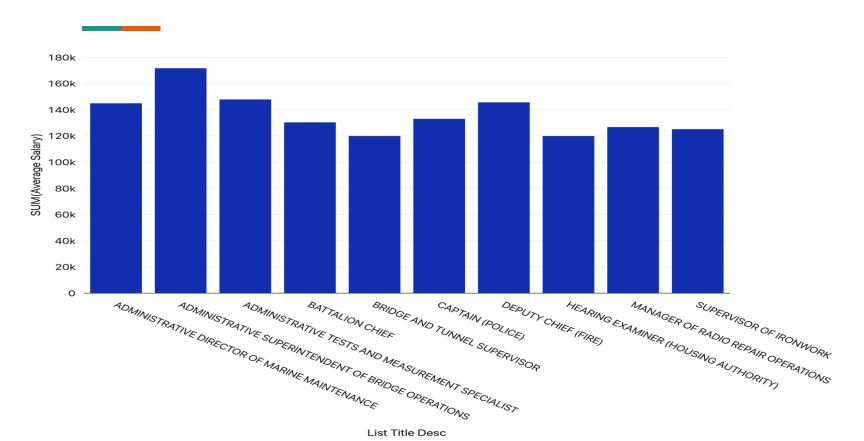
Popular Certifications: PRINCIPAL ADMINISTRATIVE ASSOCIATE, ADMINISTRATIVE MANAGER, and COMPUTER SYSTEMS MANAGER are the top three preferred certifications by candidates in recent years, indicating their relevance and demand in the job market.

Top 10 positions which has more hiring rate



High Demand Titles: The positions of ADMINISTRATIVE MANAGER and PRINCIPAL ADMINISTRATIVE ASSOCIATE show high hiring rates, suggesting a consistent need for professionals in these roles.

Maximum Salary received by top 10 job titles

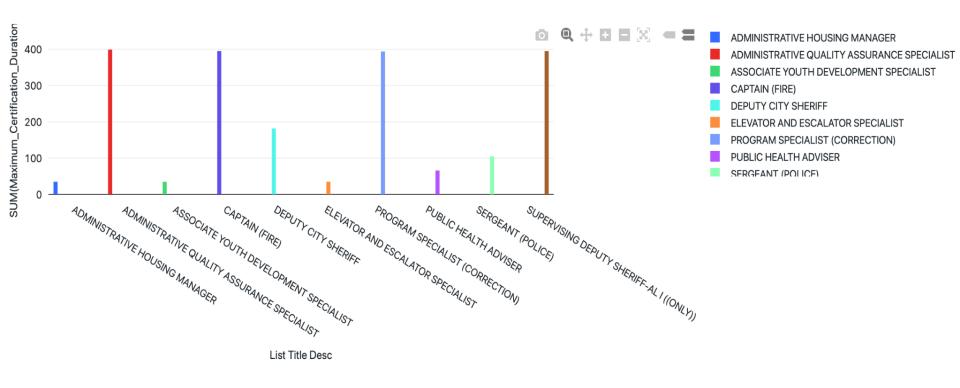


The two job titles which has max and min average salary

	List Title Desc	Average Salary	Minimum Salary	Maximum Salary
1	ADMINISTRATIVE SUPERINTENDENT OF BRIDGE OPERATIONS	171666	171666	171666
2	YOUTH DEVELOPMENT SPECIALIST	46824.0925058548	43904	49427

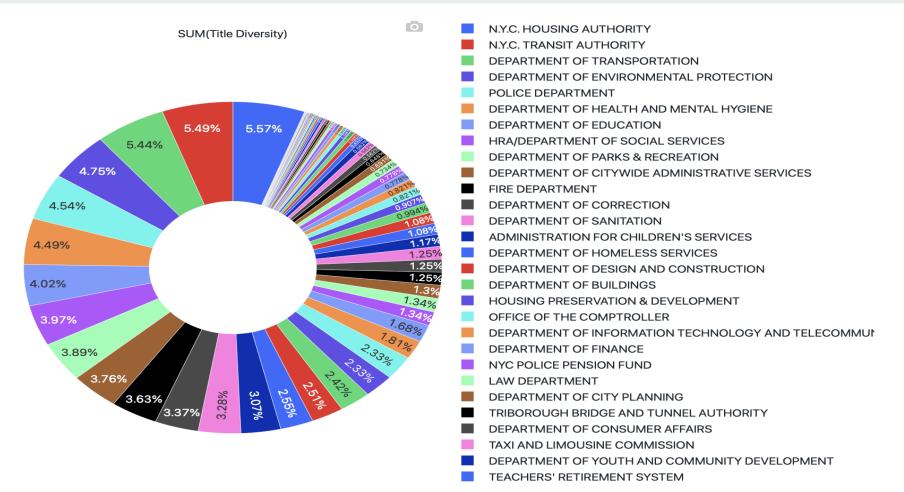
Salary Disparity: The ADMINISTRATIVE SUPERINTENDENT OF BRIDGE OPERATIONS earns the highest salary, while the YOUTH DEVELOPMENT SPECIALIST earns the lowest, indicating a significant salary discrepancy across job titles.

Top 10 certificates which has more Expiration days

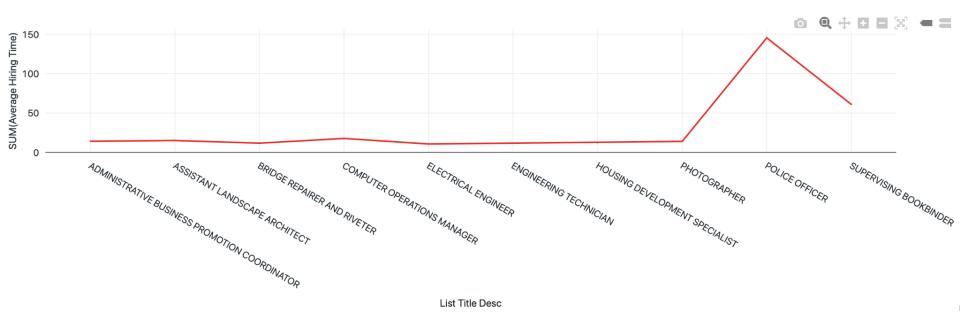


Certifications like SUPERVISING DEPUTY SHERIFF-AL I ((ONLY)) and CAPTAIN (FIRE) have relatively longer certificate expiry dates, potentially requiring longer periods of recertification or renewal.

No. of Positions handled by each agencies

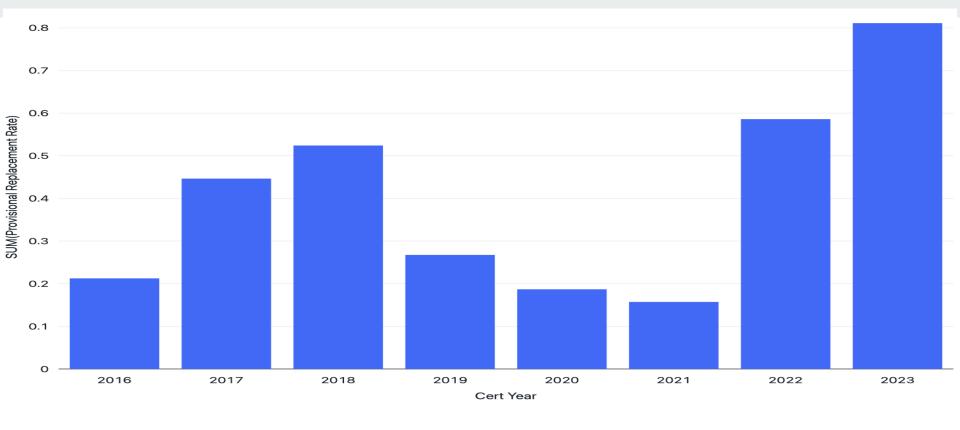


Job Titles which take more hiring time



Lengthy Hiring Process: Hiring a Police officer appears to have a longer duration compared to other positions, indicating a potentially rigorous selection and vetting process.

Provisional Replacement Rate over the years



Provisional Replacement Rate: Over time, there has been an increase in the rate at which provisional employees are being replaced with permanent employees, indicating a shift towards a more stable and permanent workforce.

Conclusion

- **Increase in Exam Clearing:** The number of individuals clearing the exam has shown significant growth, exceeding 35,000 compared to the previous year, indicating a strong pool of qualified candidates.
- **Job Titles Distribution:** Agencies such as N.Y.C. Transit, Housing, Police Department, and Environment have a diverse range of job titles, suggesting a wide variety of career opportunities within these sectors.
- Salary Disparity: The ADMINISTRATIVE SUPERINTENDENT OF BRIDGE OPERATIONS earns the highest salary, while the YOUTH DEVELOPMENT SPECIALIST earns the lowest, indicating a significant salary discrepancy across job titles.
- **High Demand Titles**: The positions of ADMINISTRATIVE MANAGER and PRINCIPAL ADMINISTRATIVE ASSOCIATE show high hiring rates, suggesting a consistent need for professionals in these roles.
- Popular Certifications: PRINCIPAL ADMINISTRATIVE ASSOCIATE, ADMINISTRATIVE MANAGER, and COMPUTER SYSTEMS MANAGER are the top three preferred certifications by candidates in recent years, indicating their relevance and demand in the job market.
- PRINCIPAL ADMINISTRATIVE ASSOCIATE is the most sought-after certification, with over 300,000 candidates obtaining it, highlighting its popularity and potential career prospects.
- **Lengthy Hiring Process**: Hiring a Police officer appears to have a longer duration compared to other positions, indicating a potentially rigorous selection and vetting process.
- **Provisional Replacement Rate**: Over time, there has been an increase in the rate at which provisional employees are being replaced with permanent employees, indicating a shift towards a more stable and permanent workforce.
- **Agency Analysis**: The N.Y.C. Transit Authority and Police Department have the highest number of certified individuals, suggesting these agencies attract a significant number of candidates. However, the Police Department is the most preferred choice among all agencies.

Thank You!!!