

**List of Trainings for Crime Analysts from the Manhattan DA's Office
11/30/2020**

- Trainings
 - Law Enforcement/Analyst
 - Open Source Intelligence (Training & free tools)
 - <https://inteltechniques.com/>
 - <https://www.toddington.com/>
 - <http://www.automatingosint.com/blog/> (programming focused)
 - FBI LEEP (cyber classes)
 - <http://www.iacpcybercenter.org/topics/training-2/free-training-for-law-enforcement/>
 - National White Collar Crime Center (NW3C)
 - <https://www.nw3c.org/online-training>
 - National Domestic Communications Assistance Center
 - <https://ndcac.fbi.gov/>
 - AskNDCAC@fbi.gov
 - Northeast Counterdrug Training Center
 - SEARCH Online Investigations
 - <http://www.search.org/>
 - SANS, CCE Boot camps (different vendors offer this), all the Forensic companies offer training for their own product so use what is familiar for you.
 - National Computer Forensics Institute
 - <https://www.ncfi.usss.gov/ncfi/>
 - Federal Law Enforcement Training Center
 - <https://www.fletc.gov/>
 - High Intensity Drug Trafficking Area (HIDTA)
 - Los Angeles HIDTA – Instruq
 - <https://instruq.co/>
 - Excel (free)
 - <https://excelexposure.com/>
 - <https://www.gcflernfree.org/excel2016/>
 - <https://support.office.com/en-us/excel>
 - <https://exceljet.net/>
 - YouTube (excel tutorial playlists, specific tasks, etc.)
 - Programming
 - Organized
 - General Assembly – boot camp
 - Coding Classes – general
 - Self-help (general – many are free)
 - Lynda
 - Udemy
 - Skillshare
 - Khan Academy
 - Code Academy

- Coursera
- YouTube
- Self-help (Python specific)
 - <https://automatetheboringstuff.com/>
 - <https://www.learnpython.org/>
 - <https://www.codecademy.com/learn/learn-python>
 - <https://learnpythonthehardway.org/>
 - <http://docs.python-guide.org/en/latest/intro/learning/>
 - <http://timothybramlett.com/Learn Python Lesson 1.html>
 - <https://www.python.org/about/gettingstarted/>
 - <https://www.reddit.com/r/learnpython/wiki/index>
 - <https://github.com/EbookFoundation/free-programming-books/blob/master/free-programming-books.md#python>
 - <https://github.com/Michael0x2a/curated-programming-resources/blob/master/resources.md>
 - <http://opentechschool.github.io/python-data-intro/core/text-files.html>
 - <https://www.hackerrank.com>
- Self-help (R specific)
 - Programming language for statistics/graphics
 - <https://www.datacamp.com/>
 - <https://www.rstudio.com/online-learning/>
 - <http://tryr.codeschool.com/>
 - <https://www.r-bloggers.com/how-to-learn-r-2/>
- Products (general list – not all used at DANY)
 - Accessdata (Forensic Tool Kit) www.accessdata.com
 - Accurint
 - Adobe Photoshop
 - Amped Software Products
 - ArcGIS Mapping
 - ArcGIS Online (Online Interactive Maps)
 - Audacity
 - Autopsy (SANS) this is a Free forensic tool (www.sleuthkit.org)
 - Blacklight (This is predominantly for MACs) www.blackbagtech.com
 - CarFax for Police
 - Cellebrite
 - CLEAR
 - Crystal Reports
 - Dcode (Technical time conversion)
 - Encase (Guidance Software)
 - eTrace (Firearms Tracing)
 - ffmpeg (convert video)
 - Forensic Explorer (www.forensicexplorer.com)
 - Google Earth
 - HIDTA PIMS Facial Recognition

- i2 Analyst Notebook
 - ISO ClaimSearch
 - JABS (US Marshall Prison Search)
 - Leads Online
 - Leap
 - LENS (Federal)
 - Microsoft Movie Maker
 - Microsoft Office
 - NDCAC Tools
 - NDEx (National Data Exchange – FBI)
 - N-Force (ATF Database)
 - Notepad++
 - Omniforms/Complaint Database
 - Oxygen (Phone Analysis) www.oxygen-forensic.com/en/products/oxygen-forensic-detective
 - Palantir
 - Pen-Link
 - Perceptive Workgroup Search
 - PerpHound (NW3C)
 - Python
 - qGIS
 - R
 - ShotSpotter
 - SnagIt
 - Spotlight
 - Surveillance Players
 - Thunderbird (Mozilla email client – handling SW compliance)
 - TLOxp
 - Truecrypt/Veracrypt
 - Voyager
 - VLC Video Player
 - X1 Search
 - X1 Social Discovery
 - Xanalys Link Explorer
 - XMind
- Data Management Techniques
 - Regular expressions
 - Searching for patterns rather than specific text (ex. phone numbers, emails, addresses, etc.)
 - <https://regex101.com/> -- learn and test regular expressions
 - <https://spreadys.wordpress.com/> (forensic video blog relating to surveillance video)
 - <http://www.search.org/resources/e-crime-investigative-tools/>
 - <http://www.search.org/resources/publications/law-enforcement-tech-guides/>
 - VBA for automating Microsoft Office tasks (Excel, Word, Outlook, etc.)
 - Remember Techniques are based on the type of case and where data may exist on a device (think as you are the end user)

- On-line hiring locations (e.g., Indeed.com)
 - Local universities
 - Professional organizations
 - <https://www.iaca.net/>
 - Local Career Center Agencies
 - Indeed.com
 - Stackoverflow.com/jobs

Excel Shortcuts

ctrl + arrow = jump to the end of a section

shift + arrow = extend selection by one cell

ctrl + shift + arrow = extend selection to end

ctrl + a = select all

ctrl + shift + l = toggle filters on/off

ctrl + c = copy

ctrl + x = cut

ctrl + v = paste

ctrl + alt + v = paste *special*

F2 = jump into a cell to edit it

F4 = toggle relative/absolute references for a range

ctrl + ; = enter current date

ctrl + shift + ; = enter current time

alt + = Starts to select the menu on the toolbar. You can do almost anything in Excel this way.

Excel Formulas Cheat Sheet

Basic math

Sums and averages (replace A1:A8 with your range):

=SUM (A1:A8)

=AVERAGE (A1:A8)

Count non-empty cells with numbers:

=COUNT (A1:A8)

Count all non-empty cells:

=COUNTA (A1:A8)

Conditions

Make cell value conditional on something:

=IF (condition, if true, if false)

=IF (A1=1234, "thenthis", "otherwisethis")

Sum under certain conditions (example: greater than 2):

=SUMIF (range, condition, [opt. sum range])

=SUMIF (A1:A8, ">2")

Sum if another column is something:

=SUMIF (A1:A8, 1234, B1:B8)

Combine a count with an IF statement:

=COUNTIF (range, condition)

=COUNTIF (A1:A8, 2223335555)

COUNTIF to flag duplicates:

=COUNTIF (\$A\$1:\$A\$50, \$A1)

* remember to drag formula down entire column

Dates

Create excel date:

=DATE (year, month, day)

Count days between two dates:

=DAYS (A1, A2)

Editing Text

Combine multiple text cell:

=CONCATENATE (A1, A2, A3...)

example:

=CONCATENATE ("A", "B", "C")

ABC

Extract just part of text:

=MID (cell/text, start, number chars)

example:

=MID ("123456", 3, 3)

345

Remove extra spaces in text:

=TRIM (A1)

Convert text to uppercase, lowercase, or "proper":

=LOWER (A1)

=UPPER (A1)

=PROPER (A1)