

Name _____

Due Date: Today at the end of the period in the red bin

College & Career Awareness
Engineering / Skilled & Technical Trade Pathway
Protective Services, Fingerprint Collection



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Overview: The major industrial areas of Skilled & Technical Trades are **construction, manufacturing, transportation, communication, personal services, and protective services**. People who work in technical fields are found everywhere. They are the contractors who build your new home and the factory workers who assemble your stereo. They are the pilots who fly you to your vacation destination and the news anchors who bring you the news. They are the police officers who keep you safe and the auto technicians who use the latest technology to figure out why your car isn't working.

Essential question: What is the process of lifting fingerprints to collect as evidence?

Checklist:

_____ Record input

_____ Each person lift a print & place the tape on a fingerprint backing card

One person from your group of 2-3 put on gloves (this ensures that your fingerprints do not contaminate the evidence)

- *Establish a work space by clearing all items and cover it with 2-4 sheets of paper
- *Open the dusting powder & lightly dip the dusting brush into the powder
- *Shake off any excess powder by gently tapping the brush
- *Using a twisting motion, very lightly touch the brush to the surface of the evidence

As you cover the evidence you should start to see fingerprints take shape. Be careful not to use too much pressure on the brush as this could smear the prints. To remove any excess powder from evidence, tilt the evidence so that the powder falls away from the print

*Tear off a piece of lifting tape large enough to cover at least one complete fingerprint from the evidence. Carefully place the tape over the print and smooth out any air bubbles. In one quick motion, lift the evidence and place the tape on a fingerprint backing card. Turn the card over & fill out the required information.

*Repeat until all people in your group lift a print

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_____ Using a magnifying glass, take a look at the print & record your observations in your output. Record any friction ridge patterns and minutiae. For example, "The collected fingerprint contains a tented arch pattern. Also present are a lake and an island." Record as many as possible.

Note: Usually for fingerprints to be identified as coming from the same finger they must have 20 to 40 matching minutiae.