

SUBJECT: ELECTRIC FILING

LESSON OBJECTIVES:

Upon completion of the lesson, the student will be able to:

- Understand how to use an electric file safely for basic procedures.
- Identify the types of electric files and choose the best machine for you.
- Understand the most frequently used types of bits.
- Understand basic filing techniques used to ensure safety

Inspirational thought for the day: “Only those who dare to fail greatly can ever achieve greatly.” – Robert Francis Kennedy

I) Are Electric Files Safe?

- A) Types of Machine
 - Belt Driven
- B) Micromotor Machines
- C) Craft and Hobby Tools

II) Choosing An Electric File

- A) Power and Speed
 - Revolutions per minute
 - Torque
- B) Life Expectancy
- C) Maintenance and Warranties

III) Choosing Bits

- Wobble and vibration.
- Even filing surface
- Surface smoothness
- Sharp edges
- Grits
- Shank
- A) Types of Bits
 - Sanders
 - Diamond
 - Carbide
 - Swiss carbide
 - Mandrel
 - Traditional
 - Cross-cut
 - Swiss carbide bits are excellent for beginners
 - Buffing bits
 - Pedicure Bits
 - Jewelry Bits
- B) Cleaning and Disinfecting Bits
 - Rusting

IV) How to Use An Electric File

- A) Important Things to Remember
 - Correct bit angle

- Rings of fire
- Correct speed
- B) Artificial Product Maintenance
- C) Removing Lifted product
- D) Cracks
- E) Shaping C-Curves
- F) Rebalances
- G) Finishing
- H) Buffing Oils
- I) High-Shine Buffing
- J) Buffing Creams

V) Troubleshooting

- A) Reducing Dust
- B) Heat
 - Causes of heat
 - Solutions to Reduce Heat
- C) Grabbing
 - Potential Causes of Grabbing
 - Solutions to Grabbing
- D) Rings of Fire
 - Causes of rings of fire
 - Solutions to rings of fire
- E) Product Breakdown
 - Potential Causes of Microshattering
 - Solutions to Microshattering
- F) Vibration
- G) Safety Tips for Electric Filing

VI) You Have The Value