

## **Modern Guitar - Lutherie Workshop MusicaRiva Festival**

### **DAY 1 – Introduction & Pickup Construction**

Objective: To introduce participants to the world of electric lutherie and have them immediately work on a concrete object.

#### **1. Introduction (30 min)**

- What is electric lutherie
- Main parts of an electric guitar
- Brief history of the pickup

#### **2. Pickup Construction (3 h)**

- Explanation of how pickups work
- Introduction to the manual winding machine
- Coil winding by participants
- Soldering terminals and basic assembly

#### **3. Test and discussion (30 min)**

- Connecting the pickup to a tester or an amplifier
- Comparison of the pickups made (on a didactic instrument)

*Opportunity for those who could not finish their pickup to continue during the afternoon hours*

### **DAY 2 – Body, Neck, and Fretboard**

Objective: To provide hands-on experience with woodworking and introduce aesthetic customization. Demonstrative insights into CNC machining techniques and 3D design.

#### **1. Body Sanding and Chamfering (2 h)**

- Prefabricated body (even in reduced scale or didactic shapes)
- Sanding and chamfering work and use of electric router
- Preparation for finishing

#### **2. Fretting a Neck (2 h)**

- Installation of frets on a test neck
- Finishing and leveling with files
- Polishing with Dremel and polishing paste

## **DAY 3 – Electronics and Setup**

Objective: To provide a taste of the fundamental operations on an electric guitar, and finish with something "ready to play." What is a basic electrical circuit (volume, tone, jack).

### **1. Simple Wiring (2 h)**

- Soldering components on a pickguard or didactic board
- Connecting jack, potentiometers, pickups
- Circuit testing

### **2. Basic Guitar Setup (1.5 h)**

- Practical and demonstrative truss rod adjustment
- Action height and octaves
- Differences between bridges (Fender, Gibson, etc.)

### **3. Conclusion and feedback (30 min)**

- Summary of concepts learned
- Open questions
- Delivery of symbolic certificate or souvenir (e.g., the built pickup)

N.B.: All materials and tools will be provided by the artisan, but you are welcome to bring your own tools if you wish.