



20 WEEK PROGRAM OUTLINE – ELECTRIC/ACOUSTIC AND REPAIRS

Week 1

Review ground rules of program and facilities

Orientation

- Facilities
- Safety
- Goals and objectives
- General tool and machinery
- Sharpening and care of tools
- Review of chisels, knives, scrapers and proper use

Week 2

Electric guitar - Preparation

- Gluing of neck and body
- Installation of trussrod
- Gluing of fingerboard
- Scraping of fingerboard
- Fret job including side dots, dots and filing of frets
- Installation of strings including bass and acoustic guitars
- Installation of Floyd Rose tremolo

Week 3

Spraying and further preparation

- Learning spraying techniques
- Sanding sealer and lacquer
- Prepare for buffing
- Installation of parts and assembly of electric guitar
- Cutting of pearl and installation
- Wiring of electric guitar

Week 4

Installation

- Dressing frets and moulding neck
- Installation of neck to body
- Installation of bridge, machine heads and parts
- Installation of pick ups and electronics
- Wiring electronics
- Strings, nuts, back plates and set up intonation
- Final set up and polish

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Week 5

Acoustics

- Learn about various moulds, jigs and tools used to manufacture acoustic guitar
- Prepare set of wood for sides and back
- Practice bending sides
- Prepare to glue back and top
- Install Piezo pickups

Week 6

Gluing

- Learn how to install and glue bracing for back and top
- Install rosette on top (cut and gluing)
- Forming sides in mould with blocks and begin to assemble
- Gluing of inner strips
- Learn various bracings and parts related to tops and backs

Week 7

Installation

- Install top to sides
- Install back to sides
- Install neck to body
- Prepare for groove cut/binding and gluing

Week 8

Neck Work

- Cutting of neck
- Install trussrod
- Install fingerboard
- Moulding of neck
- Sanding of neck and preparation for frets, dots and finishing

Week 9

Repair Program Begins

- Refinishing guitar – removal of lacquer
- Sanding body and neck, repair if necessary
- Shirm top on acoustic guitar and touch ups
- Replacing top and/or repair top of acoustic guitar
- Fingerboard lacquering and top and sides touch ups
- Glue pickguard on old and new guitars
- How to make special sized pickguards

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Week 10

Gluing – Repairs

- Gluing broken headstocks
- Fitting new pieces on headstock
- Moulding headstock after repair
- Gluing bridge
- Gluing neck on body
- Installation of Piezo pickups

Week 11

Start Building Your Own Guitar

- Week 11 – Build the body
- Week 12 – Build the neck
- Week 13 – Sanding of neck
- Week 14 – Sanding of body
- Week 15 – Prepare frets, dots and preparation for spraying

Week 16

- Guitar is drying
- Prepare of guitar assembly – will work on mock guitars
- Dress frets, nuts, sanding lacquers, buffing, electronics and set up

Week 17

- Return to working on your own guitar
- Sanding lacquer of body
- Prepare for buffing body
- Sanding neck
- Dress frets, clean fingerboard and buff
- Begin assembling – parts, bridge, machine heads, pickups and nuts

Week 18

- Complete your guitar – any final touches

Week 19

- Repeat various steps for final review such as:
 - gluing necks – one piece neck thru
 - gluing body – one piece neck thru
 - gluing wings
 - trussrods and fingerboards
 - prepare for moulding neck and body
 - Employee will come in for students to observe moulding techniques

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Week 20

Final Week – Polishing and Final Test of Guitar

- New nut
- New frets – side dots and dots
- Moulding neck
- Gluing bridge (acoustic)
- Installation of neck (electric – two piece)
- Set up of Floyd Rose tremolo
- Learn how to straighten bowed neck when trussrod is loose using heat tooling

