



Summer 2018 Institute Schedule

Required Pre-attendance Webinar / video for participants include a guitar terminology primer and worksheet / assessment.

Sunday

12:00 - 4:00	Room setup: Training team only Equipment and tool inventory Room Prep: table layout, dust collection, finishing area, safety Materials sorted, Kits unpacked and set up Purchase list of items, Home Depot list Computer room setup with projector Inventory all paper handouts: wiring schematic, photo release, various consent forms, attendance, headstock design templates (10 per student!), certificates
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Summer 2018 Institute Schedule

Monday

AM Session Arrive at 8:00 AM

8:15 - 8:30	<p>Welcome</p> <ul style="list-style-type: none"> • Introductions and Workshop Overview • Administrative Paperwork • Complete forms -- Photo release, Consent form, attendance form <p>Expectations / goals for the week & year, review of core module assessments. Mapping national or state standards to curriculum, Thursday target for curriculum development project for the week</p>
8:30 - 9:00	Project assessment on Cost Analysis - homework item
9:00 - 10:00	<p>Selection of Bodies and necks -- QC guitar parts (sand necks to fit and measurement skills)</p> <p>Shop Orientation, Safety discussion</p>
10:00 - 10:15	Break
10:15 - 12:00	<p>Guitar Headstock Design –sketching. "10 in 20" - 10 sketches in 20 minutes for headstock design. Need blank patterns of paddle headstock.</p> <p><i>Additional activity development ideas: surface area, geometry of design, angles & trigonometry, CAD design and measurement</i> Lab time for Headstock Design. In one hour all we will accomplish is the headstock design itself.</p>
12:00 - 1:00	Lunch

PM SESSION

Goal: Body sculpted, neck and fretboard Glued (back of neck scraped)

1:00 - 1:10	<p>Task stations / teams created. If possible one or two trainers set this up during lunch or headstock design for 1:00 start</p> <p>NO FLY ZONE ALERT. Demonstrate body sculpting, jack hole & wire route, fret dots on fretboard</p>
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1:10 - 4:00	<p>Task 1 – Headstock shaping with Bandsaw</p> <p>Task 2: Body sculpting & sanding (rasps, bladder sander, grinder)</p> <p>Task 3 – Drill jack and pickup wiring holes and through holes in neck pocket (use drill press!)</p> <p>Task 4 - Drill and install fret dots on fretboard</p>
3:45 - 3:50	5 minute demo on fretboard gluing interrupt with flip lights. Set this up between 3:00-3:30.
4:00 - 4:30	Task 5- Glue fretboard onto neck – group activity Mark fretboard location on neck for optimal placement for easiest intonation.
4:30 - 5:30	Task 6 - Seal body with Bona Seal or Tru-Oil or Tung Oil (takes longer to dry between coats)
5:30	Exit deliverables: body sanded, sealed, 1st coat of top coat applied; fret dots drilled, installed; fretboards glued to neck

HOMEWORK: Review Videos on Neck finishing, fretting + development of learning activity.



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Tuesday

AM SESSION

7:45 - 8:15	Light sand + coat of finish on body - Prior to class (no starting after 8am)
8:15 - 9:15	Technology & Math activities hands on activities for classroom, adaptive for many levels of instruction - FRET spacing
9:15 - 10:00	How we have implemented; plus how others have implemented – Class Roadmap - 16 weeks + Online resources for faculty
10:00 - 10:15	Break
10:15 - 12:00	Split into groups to work on tasks 1&2 simultaneously Task 1: File. sand headstock, and blend transition onto neck/fretboard, John Page suggestion to shape back of neck Task 2: Adjust truss rod to level (flatten) fretboard. Sand 12” radius on fretboard (apply chalk to fretboard), shape/sand neck and headstock. Apply sealer to fretboard after radius is achieved.
12:00 - 1:00	Lunch

PM SESSION

Goal: Fretboard Radiused , fretted and finish coats (multiple on Body / Neck)

1:00 - 1:15	Coat of finish on guitar bodies - light sand 400 before applying finish
1:15 - 2:30	Demo Fret wire preparation: clean, curve, clip
2:30 - 2:45	Break
2:45 - 4:00	Fretting demonstration - Swirl Paint Demonstration
4:00 - 5:15	Fretting (seal fretboard and neck before fretting) & swirl paint bodies



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5:15 - 5:30	Apply third coat of finish on body and first coat on neck
5:30	exit deliverables: neck radiused, headstock shaped, frets applied, finish on neck and body (including optional swirl dip)

HOMEWORK: Review the Soldering video + Learning activity development



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Wednesday

AM SESSION

8:00 - 8:30	Apply last coat of finish to neck (optional) Pack up all Finishes. No temptation for another coat.
8:30 - 9:30	MLA development time Start the framework for one MLA with identified constructs for assessment and share this on guitarbuilding.org forum.
9:30 - 10:00	Wordpress blogging video (Tulsa Summit '16) *** Chad to make a new video targeting the GBI participants as the audience..
10:00 - 10:15	Break
10:15 - 11:15	Fasteners Activity MLA, Quiz
11:15 - 12:00	Soldering Demonstration
12:00 - 1:00	Lunch

PM Session

Goal : wiring harness and hardware installation – sound check!

1:00 - 5:30pm	Task 1: Solder wiring harness Task 2: File and dress frets Task 3: Hardware installation Bridge + ground Task 4: Install side markers in Neck Task 5: Install Hardware on body (pickups and strap buttons)
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HOMEWORK : Finalize learning activity development.



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Thursday

AM SESSION

8:00 - 8:45	Developing the framework of your implementation plan
8:45 - 9:30	Online resources available for your classroom, website review - forum q&a
9:45 - 11:00	Participant-centered discussion of newly developed learning activities Update personal blogs or website tour and explore.
11:00 - 12:00	Lunch

PM SESSION

Goal – Guitar Shaped objects! No one leaves until necks are attached, strings on and height set at bridge on ALL guitars – We work as a team!

12:00 - 5:30	Task 1: Final Hardware installation and sound check (carryover) Task 2: Fret Leveling / Rocking (45 minutes) Task 3: Neck installation demonstration Attach Neck – GSO! Task 4: PRE-set the intonation on Bridge Task 5: Install strings Task 6: Set bridge height to 12" radius
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**Homework - view intonation YouTube video and powerpoint handout on your own
Suggest downloading a guitar tuner app (Optima Guitar Tuner has frequency display)**



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Friday - ROCK STAR FRIDAY

AM SESSION

8:00 - 11:00	Finish setup and intonation, use Powerpoint Task 1: neck relief Task 2: Nut string height Task 3: Intonation and testing
11:00 - 11:30	Reflective Evaluation
11:30 - 11:50	Group Picture
12:00 - 1:00	Lunch

PM SESSION

1:00 - 2:30	Peer evaluation of guitars using rubric assessment sheet
2:30 - 4:00	Final adjustments to guitars
3:00 - 5:00	Tool re-pack and cleanup lab



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