CompetencyID	Category	Text	ReferenceCode	What this means	What it looks like	Why critical
G01	General Competencies	Working as an effective team member.	-Responsibilities of Apprentice to Sponsor Saw Filer 1, 1-2-5 to 1-2-6 Saw Filer Uses and Team Coordination Simple Room Role in Shift Continuity Saw Filer 1, 1-2-4	A saw filer is part of a larger production team that includes supervisors, milwrights, operators, electricians, and fellow filers across different shifts. Being an effective team remoter means maintaining clear communication, supporting smooth shift transations, swings collaboratelys, and uphodding increased the second of the control	You coordinate with the incoming and outgoing filer about the current condition of saws, changes in strain or alignment, upcoming saw changes, and any issues observed during operation. You record all issues or unusual conditions (e.g., which is supported to the control of th	Filing rooms operate continuously across shifts, and saws are only one continuously across shifts, and saws are only one counting system; if communication breaks down, saws may be installed incorrectly, wom installed incorrectly, wom safety procedures may be skipped. Miscommunication leads to downtime, unsafe to downtime, unsafe to downtime, unsafe to downtime, and avoidable delays in production. Team-based awareness, accurate documentation, and procedure communication procedure communication professional standards of a certified filer.
G02	General Competencies	Attention to detail and ability to focus.	-Importance of Saw Flatness, Tension Zones, and Imperition Accuracy Crack Inspection and Tolerance Limits Saw Filer 1, Section 6-8-2 Rench Work and Quilily Inspection Expectations Saw Filer 1, Section 7-1-3 Saw Filer 1, Section 7-1-3 Saw Filer 1, Section 13-1-1	Precision is the cornerstone of all filing work. A journeyperson saw filer is expected to maintain microscopic accuracy during measurement, inspection, welding, gindling, and alignment procedures. This seven during replative or late-shift tasks. Alternion to detail is not optional—it is a safety requirement. You must catch viriations as a small as 0.002° and respond with the cornect technique and tool. Flatness tolerances under 0.002° are used when Flatness tolerances under 0.002° are used when cornected before tensioning. Saw Filer 1. Section 13-1-1	When leveling a saw you detect and correct a 0.002 dish using a certified straightedge and correct hammering technique. • During terming the straightedge and correct hammering technique. • During termina and drop test verification, resurring an experiment of the straight of the tension ring using proper back gauge placement and drop test verification, resurring a wind the straight of the strai	thousandths of an inch. A misaligned saw, under- tensioned plate, or grind angle off by even 1° can cause: *Blade wobble, snaking, or cracking
G03	General Competencies	Active participation in learning process.	*Apprentice Responsibilities and Mentor Interaction Saw Filer 1, Sections 1-24 to 1-2-6 Importance of Hands-on Learning and Saw Filer 1, Section 1-2-3	What this means: Apprenticating in the saw trades is not passive—it. Apprenticating in the saw trades is not passive—it technical learning. You are expected to take ownership of your development by stating involved in every aspect of the training process. This means participating needed, and tracking your self progression using the ETA 671 Work Process Schedule (Saw Filer Competency Log Critical role is happing your responsibility to follow through, ask questions, and pursue improvement. Filing is learned by doing, and every task you complete should move you close to becoming a safe, skilled	You bring your ETA 671 Work Process Schedule (Saw Filer Completen); Log) to waituations and computer data of complete comp	Saw filing cannot be learned by standing and watching. Many of the most important skills—more than the most important skills—grinding geometry, asie handling—require hundreds of repetitions to master. Apprentices who master. Apprentices who master habits. A passive burden on your mentor to fall behind or develop unsafe habits. A passive burden on your mentor to chase your development. Descriptions of the properties of the
G04	General Competencies	Shares ideas.	-Filing Room Collaboration and Process Improvement Saw Filer 1, Section 1-2-4, Communication with Other Trades and Saw Filer 1, Section 1-2-5 to 1-2-6	A skilled filer is not only a technician but a problem solver and contributor to shop improvement. Sharing damage, reduce wate, improve workflow, or enhance safely. Whether it is a small adjustment to a tagging system or a technical insight about guide pressure, your rigut helps optimize the operation. This is surply solver to the sharing system or a technical insight about guide pressure, your rigut helps optimize the operation. This is troubleshooting, or when testing new setups. As a professional, your role includes offering constructive, evidence-based suggestions, regardless of your level of experience. Apprentices who speak up commitment to the trade.	You identify that a grinding wheel is wearing unevenly, and recommend replacement before it couses improper tooth geometry, excessive heat, or couses improper tooth geometry, excessive heat, or whose, and explain how it could want pasws, recommending realignment or replacement. You suggest introducing a visual tagging state of the property of	team. Why this is critical: Filters are closest to the toots, the saws, and the toots, the saws, and the toots, the saws, and the safety. No one sees everything, and a single overboded saws—the a safety. No one sees everything, and a single overboded saws—the a safety, the control of the correction of the control correction of the correction of the control correction of the correction of the control correction of the correction of the correction correction of the cor

					-You wear CSA-approved safety glasses or a full face shield: owhen grinding saws, dressing wheels, or cleaning with compressed air oAny time you're exposed to sparks, debris, or flying grit -You wear grip-rated gloves (rubberized or cloth with	
DSWP01	Demonstrate Safe Work Practices	Explain proper PPE.	-Personal Apparal & Safely Equipment Saw Filer 1, Sections 2-1-1 to 2-1-12 -Knife Safely & Gove Standards Saw Filer 1, Sections 8-1-1 to 3-1-2 -Hearing Protection Requirements	Personal Protective Equipment (PPE) is not just a company policy—It is a legal requirement and a critical barrier between you and high-risk hazards in the filing room. Grinders, wheels, compressed air, heavy saws, and knife handling all expose you to sharp edges, faster and knife handling all expose you for sharp edges, faster the cornect PPE at all times reduces the risk of personanet injury, even death. PPE is job-specific. You must know which PPE applies to which fast water if every time—not just when	findion surface): owhen in surface; owhen in surface; owhen handling chipper knives, especially when oily or wat. Owned to the proper surface in surface in surface in support and fangerous when we support and surface in surface in surface in all zanes stand over 85 dis, with a preference for NRR 25 or higher in chainsaw and grinder areas of the surface in surf	spring back, knives can slip, and contact with rotating equipment can lead to: -Lacerations -Eye injuries or blindness -Crushed fingers or broken bones -Hearing loss -Fatal entanglement injuries -PPE is your first line of defense, but only if used consistently and correctly. It must also be maintained, inspected, and fitted
D9WP01	Demonstrate Safe Work Practices	Explain proper PPE.	Saw Filer 1, Section 2-1-7	reminded.	shaft-driven machinery • You handle one chipper knife at a time, always	properly to be effective Why this is critical: Saws and knives are
DSWP02	Demonstrate Safe Work Practices	Demonstrate safe handling of knives and saws.	-Kraffe Handling & Cart Use Saw Filer 1; Sections 8-1-1 to 8-1-2 -Circular Saw Handling Procedures Saw Filer 2, Section 9-1-2 -Saw Daposal Rutes Saw Filer 1; Section 2-2-13	Saws and trivies are sharp, heavy, and under mechanical afress. Improper handling—even for a few seconds—can result in serious lacerations, back injuries, or permanent disability, Safe handling includes litting, transporting, litipping, and disposing of all blades intravolation soliting in the Saw Filer 1 training guide. This competency ensures you handle every blade with respect, using proper technique, safe tools, and full awareness of your surroundings. There are no all shortcus when 4 comes to moving sharp piecl.	Vou handle one chapper kinfe at a time, always using proved kinfe carts or kinfe boxes in good condition. Secure lids and handles when transporting between stations. When tiping a bandsaw, you: Use both hands with clear communication if working with a partner or machinery or machinery You use a card or host system for bandsaws and circular saws You ensure the weight is balanced and the partner of the	designed to cut wood at thousands of feet per minute—and they don't know the difference in the design of the desig
					•You never bypass or disable: oGrinder guards, hoods, or shields oEmergency stop buttons	The vast majority of shop injuries and equipment failures occur when: •Safety guards are
DSWP03	Demonstrate Safe Work Practices	Demonstrate proper utilization of equipment.	-Grinder and Tool Safety Saw Filer 1, Sections 2-1-10 to 2-1-12 4 coloud & Energy Isolation Procedures Swy Filer 1, Section 2-1-8	Proper use of saw shop equirment is about more than considerable to the same shop and the same should be same s	ointerfocks or limit switches on filing room machines "You always follow lockourtbagout procedures before servicing equipment. Viou always follow lockourtbagout procedures before servicing equipment. The service of the service of the service of feature no other personnel can accidentally re- federe operating a grinder, you: oinspect the grinding wheel for cracks, glazing, or uneven wear: Oberfirm that the wheel is pred arting RPPM) matches of Cordism that the wheel is mounted with correct flange pressure and without overtightening "You confirm safe operation of power and pneumatic Cortinesing contains and hoses for sights, kinks, or leaks oil esting switches and emergency shutoffs other secure secure	removed
			*Tool Storage and Handling Saw Filer 1, Sections 2-1-9 to 2-1-11	What this means: Filing tools are high-precision instruments that require proper care, storage, and routine maintenance to micrometers, tension gauges, effect, and saw dresse micrometers, tension gauges, files, and saw dresse calibration, become confaminated, or fail without warning, fool sionage and care is not play tabout protecting your safety, and extending the life of both hand tools and heavy equipment. You're responsible for ensuring every tool you use is: "Acourate	"You return all hand bools to labeled drawers, fram- lined cases, or shadow boards after use o'vou never leave files, hammers, or measuring tools on benches, saw carts, or grinder housings vou store measuring natruments (incriorenters, dial indicators, back gauges) ir. o'by and sealed locations free from dat and temperature extremes 'You maintain cutting tools (e.g., chisels, files, vitor maintain cutting tools (e.g., chisels, files, o'Keping ihem oiled, dressed, and stored with edge protection o'Reporting and tagging any cracked handles, burrs, or mustroomed heart origes systems, including: o'Cardboard or leather file sleeves o'Knile trays with individual slots o'Divider bins for swaging dies and shaping cams 'You ensure coolant systems, grinders, and tensoning tools are: o'Cleande at the end of each shalf installance in the start of the protein or installance is detected or intration, play, or imbalance is detected or intration, play, or imbalance is detected or intration, play, or imbalance is detected.	A damaged tool makes damaged saws. When filling tools are left derly, and the same same same same same same same sam
DSWP04	Demonstrate Safe Work Practices	Properly store and maintain equipment and tools.	Knife & Saw Storage Practices Saw Filer 1, Section 2-2-13	•Stored in the correct location •Free from damage	oLubricated and calibrated on the schedule set by your shop or mentor	expected of every certified saw filer.

DSWP05	Demonstrate Safe Work Practices	Understands and exhibits proper housekeeping.	Filing Roum Housekeeping Rutes Saw Filer 1, Section 2-1 - Cleaning Protocols & Safe Surfaces Saw Filer 1, Section 2-1-9 to 2-1-12	A clean and organized filing room is not just a sign of professionalism—it's a critical component of shop safety, workflow difficiency, and bot accountability, and show the safety and show the safety and show the safety of the	Nou sweep or vacuum your workstation, grinder area, and babbitting station after each task—not just at the end of shire, guilet dust, and coolen resident of your remove filings, guilet dust, and coolen resident you will see the second of the second second of the second second you will see the you will see that you will see the you will see th	Filing trooms contain flammable materials, sharp objects, hot metals, and hip-speed tools. Proor sharp
DSWP06 DSWP07	Demonstrate Safe Work Practices Demonstrate Safe Work Practices	Babbitt safety. Knife and chipper safety (access and replacement of components).	-Sabbilt Safety Procedures and PPE Saw Fier 1, Sections 2-1-1, 2-1-9 4, each Handling and Motten Metal Pouring Saw Fier 1, Section 9-6-3	Babbitting involves pouring molten metal at temperatures often exceeding 60°F (315°C) to create temperatures often exceeding 60°F (315°C) to create tasks in saw maintenance due to the risks of splash burns, inhalation of lead fumes, and explosive reactions with molsture. Safe babbitting requires soften over temperature, verifiation, and cleanlines. The goal is to produce precise, defect-free babbitt surfaces—without exposing yourself or others to unnecessary danger.	Vou inspect the pouring area for other surfaces for motistare on modist or equipment) of lean workspace with no rags, sawdust, or oil of other workspace with no rags, sawdust, or oil of other workspace with no rags, sawdust, or oil of other workspaces with the resistant gives raised for motion metal of pace a hield over affety glasses of head-resistant gloves raised for motion metal of each pace with the pace of the pace o	Improper babbitting causes: Sums and flash injuries from molten metal splash - loss time should be sumed to such the sum and flash injuries from molten metal splash - loss time should be sufficient to sum the sum of the
QC01	Quality Control	Explain proper tools to use for saw measurement	Measuring Tool Use and Selection BC Saw Filer Level 1, Section 3-2-1 Procedure 10, Section 3-2-2 to 3-3-2 Saw Filer Level 1, Section 2-2-2 to 3-3-2	Precision measurement is foundational to every step of the saw filing process. You are expected to understand which tool to use for each type of measurement—whether checking plate thickness, saw flatness; must be suited to the job, properly maintained, and handled with care to produce consistent, reliable readings. Teadings. The control of the cont	• You select and use the following tools for specific season measurements. Straighger, to detect saw dish or twist during benching growing to detect saw dish or twist during benching growing to the selection of the selection	tension zones • Improper
QC02	Quality Control	Demonstrate correct measuring techniques	Measuring and Inspection Technique BC Saw Filer Level 1, Section 3-2-2 Tool Handling Best Practices CSaw Filer Level 1, Section 3-2-3	What this means: Knowing which tool to use is only part of the job—a saw lifer must also demonstrate precise technique proper hand positioning, consistent pressure, correct angle of application, and an understanding of when environmental conditions (like heat, oli or light) might skew results. See visuals. See the condition of the condition of the heat of the course, Veryor Log right of reinsigning step that follows a measurement is only as good as the technique used to obtain it.	- You take time to ensure surfaces are clean and free of oil, pitch, or burn before measure, - You use a straightedge bry, - You use a straightedge bry, - You use a straightedge bry, - Holding is perpendicular to the saw plate - Backlighting with proper angle and confrast to detect - Backlighting with proper angle and confrast to detect - Confirming against a calibrated reference before - Use - When using a micrometer or caliper, you: - Set zero against a known reference block - When using a micrometer or caliper, you: - Set zero against a known reference block - When using a dial indicator or a work (e.g., near collail - Implementation of the same (e.g., near collail - Measure multiple points on the saw (e.g., near collail - When using a dial indicator or tension pauge, you Zero the dial before starting - Record readings methodically across the plate to - assess symmetry - You (ago or report all measurements clearly and - You counding of tension drop youlded You maintain focus capecially when repeating a - You maintain focus (e.g., -0.002' concave) must reflect - maintain focus (e.g., -0.002' concave) - must reflect the concave of the	tool is accurate, poor technique results in: • Incorrect tension or leveling corrections • Faulty grind angles that damage tooth strength • Misaligned saws leading to

QC03	Quality Control	Demonstrate proper utilization of equipment	- Curvoler and Tool Safety BC Save Filer Level 1, Sections 2-1-10 to 2-1-12 - Lockout and Equipment Inspection BC Save Filer Level 1, Section 2-1-8 - Measuring and Testing Save Filer Level 1, Section 3-2-1 to 3-2-3 - War Filer Level 1, Sections 3-2-1 to 3-2-3	Utilizing shop equipment correctly is a core part of your responsibility as a saw filer. It's not enough to simply operate a princer tensing page, or measuring stand—you must demonstrate that you understand initiations. Proper utilization means using machines within their specifications, performing routine checks before use, and following bedout procedures when recessary, equipment used in saw inspection and setup.	• You confirm that all equipment is clean, functional, and calibrated before use and calibrated before use subspaced, and suitable for material (e.g., wirried vs. CEN) • Dial indicators and gauges are zeroed and seated properly • Straightening powered tools or ginders, you: • Verify the RFM rating on grinding wheels matches the machine (e.g., max wheel speed < grinder speed) • Journal of the straightening powered tools or ginders, you: • Verify the RFM rating on grinding wheels matches the machine (e.g., max wheel speed < grinder speed) • Journal of the straightening or discount of the straightening or straightening or straightening or conductive straightening or conductive straightening or conductive straightening or s	Incorrect use of shop equipment can result in- Grinder explosions or wheel fragmentation - Undetected resison or wheel fragmentation - Undetected resison or arrow failures in circular saws - Cuts, burns, or measuring setups - Collapsed bearings or arbor failures in circular saws - Cuts, burns, or measures - Cuts, and cuts of the collapsed bearing or single results - Accurate tooth and plate geometry - Accurate tooth -
QC04	Quality Control	Properly store and maintain equipment and tools	Tool Storage and Handling BC Saw Fier Level 1, Sections 2-1-9 to 2- Procision Tool Maintenance S Caw Fier Level 1, Section 3-2-2	Precision tools must be protected from contamination, mechanical shock, and miolature. Proper storage and accurate and safe, and helps prevent accidental injuries or calibration drift. As a filer, you're expected to store and maintain everything from micrometers and beak gauges to a clean, organized, and well-documented manner.	Voir return all bols to their assigned storage after each task. *Micrometers and calipers go in foam-lined, seeled cases storage and calipers go in foam-lined, seeled cases storage and calipers go in foam-lined, seeled cases storage and calipers of the calipers and calipers and calipers of the calipe	to: • Inaccurate saw setup and failed inspections • Tool failure or unsafe operation (e.g., wheel shatter, micrometer jamming)
QC05	Quality Control	Understand, explain and set clearances	*Kolfe-to-Arvid Clearance & Adjustments BC Saw-Filer Level 1, Sections 8-1-7 to 81-9 -Saw-Side Clearance and Setup - Saw-Side Clearance and Setup - Kerf and Clearance Catacidations BC Saw-Filer Level 1, Section 4-8-2	Clearance refers to the precise space between the cutting both or knife and surrounding elements such as the workpiece, and/ or guide. Settling the correct set. Free chip flow - Reduced heat and friction - Accurate cutting performance - Accurate cutting performance - As a filter, your mistur understand clearance standards across band saws, circular saws, and chippens—and be able to explain how clearance values change with species, saw gauge, and cutting conditions (e.g., friczen ivs. green wood).	For chipper knives: You measure knife-to-amil clearance using a feeler gauge you measure knife-to-amil clearance using a feeler gauge For a substance of the control of	Improper clearance is one of the most common of the
QC06	Quality Control	Perform calculations to achieve targeted lumber sizes	Kerf, Bite, and Rim Speed Calculations BC Saw Filer Level 1, Section 4-8-1 to 4-8- Application of Jeed and Speed Dala BC Saw Filer Level 1, Section 3-1-18	Files play a key role in ensuring that saws produce accurate lumber sizes. This involves undestanding and applying formulas related to both let, im speed, kerf, and feed speed. You must be able to calculate values that affect chip formation, saw loading, and final lumber dimensions—and verify that these are within acceptable production toler aircs.	- You use key formulas such as: Tooth Bite = Feed Speed (FPM) + (RPM × Number of Teeth) - Used to determine feed per tooth (ideal chip size) - Tooth Pitch = (Ssw Diameter × m) + Number of Teeth - Tooth Pitch = (Ssw Diameter × m) + Number of Teeth - Tooth Pitch = (Ssw Diameter × m + RPM) + 12 - Used to ensure correct cutting speed for material type - You verify calculations by: - You werify calculations by: - Vadiating RPM or number of teeth to maintain - Tracking chip formation and comparing it to target - Interpret the results: - You interpret the results: - You interpret the proof finish, boken teeth, or guilet - It feel does not match machine feed — off-size - It word from the control of the contro	Failure to calculate feed and bits properly results in: Undersaced or oversize lumber. Reduced recovery and mill yield. Reduced recovery and mill yield. See the second recovery and chips systems. Incorrect toulesheoting when performance issues arise. By performing accurate control of the second recovery and the secon

					You determine the required torque for a specific application by referencing: Hanufacturer's spec sheets for arbors, collars, or insert teeth insert teeth and torque charts based on thread size and grade. You use a calibrated torque wrench with the appropriate drive size and socket You follow correct torqueing sequence:	Over-torquing causes: • Cracked collars or warped saw plates • Bolt stretch, fatigue, and eventual failure
				Torque refers to the amount of rotational force applied to bolts, nuts, and fasteners—especially critical when securing saws to arbors, collars, or chipper components. Applying the correct torque ensures tight,	For circular saw collars, apply torque in a crisscross pattern to prevent warping For insert tooth saws, torque each insert or fastener	Under-torquing causes: • Collar slippage • Misaligned saws • Tooth ejection in insert
				components. Applying the correct torque ensures tight, even clamping pressure without over-stressing components. You are expected to know: -What torque values are required for each fastening	You inspect all threads and contact surfaces before torqueing: Remove debris and oil unless lubrication is required.	systems Unsafe saw installations that can fail under RPM
QC07	Quality Control	Explain and demonstrate understanding and application of torque	Torque Application in Saw Setup BC Saw Filer Level 1, Section 9-1-2 Fastening Techniques and Safety	task +How to apply torque using appropriate tools (e.g., torque wrench or beam-style driver) +How torque interacts with component materials,	Ensure seating surfaces are flat and burr-free You re-check torque after thermal cycling (for example, after the saw runs hot then cools) You never estimate by hand or quess at torque—	Understanding torque ensures mechanical integrity, safety, and precise performance from
QCUI	Quality Control	Explain and demonstrate understanding and application of torque	BC Saw Filer Level 1, Section 2-1-10	lubricants, and thermal cycling	especially for structural fasteners When receiving a saw (new or resharpened), you	every saw you install.
					Plate thickness and kerf match required size for the cut line	
					*Tooth geometry is consistent and suitable for the	A saw that does not meet
					*Tension ring is located correctly for saw diameter and RPM range *Back straightness is within 0.002" over 36", using	spec can: • Fail under speed due to incorrect
					certified straightedge •Runout at eye and rim is within allowable tolerance (typically <0.006")	tension or collar fit • Produce off-size or warped lumber
				Every saw must meet defined standards for dimensions, tolerances, materials, and safety criteria.	You reference industry or mill-standard specs for: Side clearance values	 Introduce dangerous vibration or breakage
			Saw Inspection Standards	You are expected to: Interpret spec sheets Verify saw condition against known tolerances Explain why certain specifications (e.g. runout, tension	Lead and tension values Minimum radius for cracks or weld locations You reject or tag out any saw that:	Waste time, damage mill equipment, or cause injury Your understanding of saw
			BC Saw Filer Level 1, Sections 9-1-1 to 9- 1-2 • Crack Limits and Rejection Criteria	ring diameter, side clearance) matter	You reject or tag out any saw that: Exceeds crack limits (e.g., 1.5" in collar zone on 24–36" saws) Has eve elongation that prevents secure arbor fit	put into production is safe,
0000	Overlite Comtrol	I ladovate ad easy standards and as eiffredians	BC Saw Filer Level 1, Section 2-2-1 • Tension and Back Specifications	This applies to bandsaws, circular saws, and chipper knives. Before any saw is placed into service, it must be confirmed to meet or exceed its specification for	Fails dish or back straightness tests You document specs in service logs, tagging	stable, and fit for purpose—a key responsibility of every
QC08	Quality Control	Understand saw standards and specifications	BC Saw Filer Level 1, Section 3-2-1	safe, accurate operation.	sheets, or shift reports	qualified filer. Worn or uneven guides
					You strip the old babbitt from a guide block and re- pour fresh babbitt using a ladle, torch, and mold fixture.	allow the saw to flex, wander, or dish during cuts. A properly rebuilt guide ensures the saw
				This competency covers the ability to rebuild worn or damaged saw guides—particularly babbitted guides—	You shape the guide face using a guide dresser or file until it matches specified tolerances.	remains true to its path, reducing vibration, heating, and lumber defects.
				damaged saw guides—particularly babbitted guides— by removing old metal, repouring or reshaping, and finishing to correct clearance. A well-dressed guide	You verify that the contact surfaces are flat and have	Rebuilding instead of replacing also supports cost-effective maintenance
SG01	Saw Guides	Dress and rebuild bandsaw guides		maintains consistent blade support and prevents deflection or heat buildup during operation.	correct top and side clearance to the blade.	and longer equipment life.
SG02	Saw Guides	Properly maintain guides and guide dresser				
SG03	Saw Guides	Rebuild gang and edger saw guides				
SG04 SG05	Saw Guides Saw Guides	Measure and test guide thickness and evenness Safe and proper handling of guides to maintain quality				
SG06	Saw Guides	Properly remove, pour and replace babbitt				
0000	our cuides	Tropony remove, pour una replace bubble			You inspect and clean the knife before grinding: Remove pitch or buildup with a fine oilstone	
KC01	Knives and Chippers	Demonstrate proper knife grinding and honing	Grinding Setup and Angles BC Saw Filer Level 1, Sections 8-2-6 to 8-20 coloning Procedure and Edge Inspection BC Saw Filer Level 1, Section 8-2-7 Crinding Defects and Damage BC Saw Filer Level 1, Sections 8-2-8 to 8-2-11	Knife grinding and honing are precision processes that directly affect chip quality, knife life, and chipper safety. Knives must be ground to the correct bevel angle, using the correct lefer dire, coloraft how, and grinding with the large safety and the safety	-Check for cracks, wear, or bowing -Vosecure the white to the growth ending the control of the	Incorrect knile grinding causes: - Burned edges that lose temper that lose temper and three that vibrale or eject - Uneven chip thickness and poor product quality - Overload on motors and apport doks in the part of the product of t
					Before using the grinder: You inspect wheel condition for cracks, glazing, or	
					uneven wear •Perform a ring test on vitrified wheels to confirm integrity	
					integrity Check that the wheel is trued and balanced Confirm arbor flange tightness without overtorquing BC Saw Filer Level 1. Section 8-2-4	Grinders in poor condition cause: • Uneven bevels or overheating
					You verify coolant system operation: Flow is consistent and coolant level is adequate	Chatter marks and knife cracks Incorrect clearance and
					Nozzles are aimed properly to cool the grinding zone Coolant is mixed per manufacturer spec (usually 5-	knife projection • Inconsistent chip
					8% oil in water) • You dress grinding wheels regularly: •Use a diamond dresser or abrasive stick to expose	thickness and overload on chipper motors Improper wheel
					new grit *Watch for signs of glazing, loading, or grooving	maintenance also risks: • Explosive failure of vitrified
			Grinder Maintenance and Setup BC Saw Filer Level 1, Sections 8-2-2 to 8- 2-5	Grinders must be properly maintained to ensure even,	You inspect spindle and drive components: Confirm no axial play or bearing vibration isten for motor strain or pulley misalingment	wheels Blade edge glazing Machine downtime and
			Coolant System and Safety RC Saw Filer Level 1 Section 8-2-2	accurate bevels and safe operation. Dull wheels, clogged coolant lines, or misaligned knife bars will damage knives—and can lead to serious injuries or	Listen for motor strain or pulley misalignment You clean grinder tables, guards, and magnetic bars after each session:	unsafe working conditions Routine grinder
KC02	Knives and Chippers	Maintain knife grinding equipment	Wheel Dressing and Truing BC Saw Filer Level 1, Sections 8-2-3 to 8- 2-4	equipment failure. You are responsible for the daily inspection, cleaning, and function testing of all knife	Remove filings and dust Wipe surfaces and covers Oil components as peeded for smooth movement.	maintenance = consistent, safe, and efficient knife performance.
	oo and ompporo		2-4	grinding equipment.	•Oil components as needed for smooth movement	репоппансе.

KC03	Knives and Chippers	Set clearances and other required measurements	Knife-to-Anvil Clearance and Adjustments BC Saw Fier Level 1, Sections 8-1-8 to 8- Knife Length and Projection BC Saw Fier Level 1, Section 8-1-7 Chipper Setup Checks BC Saw Fier Level 1, Section 8-2-14	Clearances in chipper systems—aspecially between the lenter sign and disper smil—must be set with precision to ensure clean shearing action, avoid overleading the disk, and maintain thip uniformity. Setting clearances also involves verifying knife projection, knife-b-vinfe length, and other critical measurements that affect chipper behance and This task demands proficiency with augues, indicators, and manufacturer tolerances—applied consistently across every knife in the disk.	You measure knife-to-anvil clearance using a feeler gauge or dial indicator: coeptable clearance ranges from 0.037—0.057 You rotate the disk slowly and check clearance at each knife position. BC Saw Filer Level 1, Sections 8-1-8 to 8-1-9 You measure knife projection (sidk-out) using a rown of the common state of the com	Incorrect clearances and mismatched projection cause: "Imbalanced disk rotation and excessive wear on bearing on (oversize, silvers, or fires). Anvil and disk damage due to kinfe contact "Higher vibration, noise, selection or fracture to the contact of the cont
KC04	Knives and Chippers	Measure and set anvil clearances	Anvil and Knife Setup Principles So Ser Flert Level 1, Sections 8-1-8 and 5-24 - Clearance Tools and Indicators So Saw Filer Level 1, Section 8-1-9	Anvil clearance refers to the distance between the cutting edge of the chipper kinle and the face of the chipper anvil. This clearance must be measured precisely and adjusted using shins or set boils. Inconsistent or incorrect anvil clearance affects of the consistent or incorrect anvil clearance affects of paid counter the fisque, and can result in dangerous This task ensures the chipper shears wood cleanly and efficiently, without overloading or damaging knives.	Nou access the chipper with all lockout procedures applied I vou clean the anvil face and surrounding surfaces: Remove all pitch, dust, or metal fragments Verify the anvil face is that and undamaged Super of all indicator to measure the gap between the knife edge and the anvil: Heasure at several points across the knife edge Record clearance values to check for taper or uneven spacing. I will be the surface of the surface	Too little clearance causes: *Knfe-b-arvil courses: *Knfe-b-arvil courses: *Knfe-b-arvil courses: *Knfe-b-arvil courses: *Courses: *Cour
KC05	Knives and Chippers	Demonstrate understanding of runout	Knile Runout Inspection SC Saw Fier Level 1. Section 9-2-14 SC Saw Fier Level 9. Section 9-19	Runout refers to the lateral (side-to-side) or axial (in- ant-out) movement of a rotating part—in this case, the vibration, noise, uneven chip formation, and diangerous stress on knife mounts and machine bearings. As a saw filer, you must understand how to detect, messaura, and diagnozed with type of truous directs in projection, and chip quality.	Nou lock out the chipper and rotate the disk slowly by hand You set up a disi Indicator mounted to a fixed reference point (such as the chipper frame or mount of the property of the prope	Unchecked runout causes: • Krife-to-anvil misalignment the value of value of the v
CS01	Circular Saws	Evaluate saws for repairability	Crack and Damage Limits Code and Damage Limits Code Filter Level 1, Sections 9-1-1 to 9-1-2 Saw February and Collar Zone Inspection Caw First Level 1, Section 2-2-1	Every circular saw must be evaluated before service to determine if it can be safely repaired or if it must be premanently removed. This evaluation includes inspecting the plate, teeth, guilets, collar line, eye, and ten	"You inspect the saw visually and with proper lighting "Use backlighting or a flashlight under the plate to reveal dish, warp, or hairline cracks "Focus inspection around coulets (erress points) cocilets (erress points) cocilets into (common failure zone) cociletine (common failure zone) cociletine (common failure zone) cociletine (common failure zone) visually visually expenses the cracks "Visu use dy openetrant or marking fluid if needed to locate fine cracks "Visu use dy openetrant or marking fluid if needed to locate fine cracks" visually expenses the cracks "Visually expenses and common failure visually expenses of the cracks of the	A damaged circular saw running at high RPM can running

CS02	Circular Saws	Replace teeth as needed	*ITCO Touth Removal and Insertion B.C. Saw Filer Level 2. Section 4-2-3 - Bit and Shank Replacement B.C. Saw Filer Level 2. Sections 4-1-9 to 4- 1-11	What this means: Circular saw teelt were over time from heat, alorasion. Circular saw teelt were over time from heat, alorasion, beath may be bland-shank, inserted sold (ITCO), or wided sold tip. Replacing wom or broken teeth involves safely removing the damaged part, cleaning the seating surface, and securing the new component with the Tooth replacement requires careful alignment, correct seating, and the proper fit. Misaligned teeth can crack saw plates or fly off during operation.	- For Inserted Tooth (ITCO) saws: - Use a brass punch to drive out the old tooth - Clean the V-slot with a were brush - Insert the concess (left-hand or right-hand - Secure the new both with pins, rivets, or drive wedges, as required 2, Section 4-2-3 BC Saw Filer Level 2, Section 4-2-3 Use a removal warmsch to back out the worn shank - Clean debris and carbon from the bore - Insert the replacement bit and shank, ensuring light - friction filt - It using a harmser and dolly, with care to swind over-tightening - During replacement: - Vou inspect both seating for gaps, tvist, or over- insertion - During replacement - Vou inspect both seating for gaps, tvist, or over- insertion - Projection match across the saw - Vou replace only with OEM or approved - replacement the - After all replacements: - After all replacements: - After all replacements: - Vou mark and log which beth were changed and the reason.	Poor tooth replacement causes: Tooth ejection under RPM 'Vibration, imbalance, and tracking failure that the second of the second damages the plate, gulets, or collar Teeth are not just cutting edges—they are part of the Precision in installation is essential for safe, long- running saws.
CS03	Circular Saws	Properly weld and repair cracks	Crack Welding and Annealing BC Saw Filer Level 1, Section 9-7-3 to 9-7- er Metal and Toch Technique BC Saw Filer Level 1, Section 9-5-4 to 9-5- for Metal and Poch Technique BC Saw Filer Level 1, Section 9-5-4 to 9-5-	When a saw develops cracks within allowable limits, it may be weld-repaired instead of being scrapped. You are expected to follow strict procedures for crack post-wide treatment (amening and peering) to ensure structural ridegity is restored without introducing new structural ridegity is restored without introducing new stream. The stream of the str	Not inspect the saw and identify all cracks: Notal cracks are located in guilets, collar zones, or plate edge Cracks are marked, and any longer than spec (e.g., 15° in collar zone) disquality the saw from repair 15° in collar zone) disquality the saw from repair 15° in collar zone) disquality the saw from repair 15° in collar zone) disquality than saw from repair 15° in zone to save properties. Diff a stress relief hole (18°-31'61) at the end of the crack to stap propagation as amalgined or file (torch prep if required) Vou select the cornect welding method: -Use MIG. TIG, or oxy-acctylene, depending on saw choose cornect filter e.g., ER 70's 6-fo MIG: high-carbon roof for oxy-acctylene. -Vou control heat during the weld: -Vou control heat during the weld of the confirm of the weld during well as w	Improper crack repair can lead to: Rapid crack prosagation and procession of the control of the
CS04	Circular Saws	Operate topper, facer and side dresser	Top and Side Grinding Procedures BC Saw Filer Level 2, Section 6-4-2 BC Saw Filer Level 2, Section 6-1-1 Profile inspection and Grinding Defects BC Saw Filer Level 2, Section 6-1-8 Filer Saw Filer Level 2, Section 6-1-8	These three machines are used to grind and shape the geometry of circular saw teeth; so of the tooth in the control of the con	- You mount the saw to the grinder: - Secure saw on correct above with flat and concentric mounting - Henrove any wobble before grinding - On the topper, you: - Set the correct rake and bevel angles based on saw type and species - Use and some adjustable cam profiles to match - some and the same and the same and the same - World and the same - Control the same the same to the tooth body - Avoid creating notches or back grinding errors - On the sader, besser, you: - Ornes sobn left and right flanks of the tooth, - World some soon world and the same and	Incorrect grinding causes: - Irregular kerf and poor tracking - Heat cracks or burned - Heat cracks or burned - Heat cracks or burned - Uneven cutting pressure, - Uneven cutting pressure, - Uneven cutting pressure - University of the control of the control - Shortened saw life and unsafe operation - grinding define the saw's - grinding define the saw's - grinding define the saw's - reflected cutting under - production conditions.
CS05	Circular Saws	Bench circular saws (level and tension)	- Leveling and Tensioning Principles BC Saw Fier Level 1, Sections 6-3-1 to 6 Orop Test and Tension Ring Evaluation BC Saw Fier Level 1, Section 6-1 - Sau Plate Level 3, Section 11-2-1 Sau Plate Level 3, Section 11-2-1	What this means: Benching is the process of removing distortion (leveling) and introducing a controlled internal stress patient (leveling) and involucing a controlled internal stress patient (leveling) to ensure the saw runs straight most critical and skill-internalve tasks a file performs. You must be able to: -leveling and correct dish, humps, and ridges -therity and correct dish, humps, and recharge -restore the saw sability to run flat at rest and true under RPM.	Leveling *Place the saw on a certified leveling slab or plate *Use a straightedge and backlighting to detect bumps, humps, and dishing *Use a crowned leveling harmer and work in small *Use a crowned leveling harmer and work in small *Use a crowned leveling harmer and radius and rotate between strikes to ensure uniformity *Check your progress requently—stop when the plate is fist within 0.000 roless *BC Saw Filer *Lensioning* *Jefently the correct tension radius, which depends on saw diameter, speed, and application *Apply tension using* *Jefently fire fish adjustment) of stretcher of (for large-scale tensioning) *Use a drop test or fension gauge to confirm proper stress pattern: Other in grants be concentric, not egg-shaped or offset *Ingal checket* *Ingal	Improper benching leads to: - Wobbling and snaking save super save save save save save save save save

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CS06	Circular Saws	Operate and maintain saw shop equipment required for circular saw maintenance	Saw Shop Equipment Operation and Maintenance BC Saw Fier Level 1, Sections 6-1-1 to 6- 1-0 Endowed Section 4-1-1 to 8C Saw Filer Level 2, Section 4-1-11 Welding and Torch Sately BC Saw Filer Level 1, Section 9-5-4 to 9-5-5	Filing room equipment must be accurately calibrated, safely poerated, and routinely maintained to ensure safe and consistent circular saw servicing. This includes: - Wieders and sorches - Hammers and anylos - Hammers and anylos - Hammers and anylos - Collainry tools and cleaning systems - Collainry tools and cleaning systems - Vou are responsible for operating and caring for all of these tools according to manufacturer instructions and shop SOPa.	- Before use: - Inspect power tools for proper guards, switches, and RPM compatibility - Check gridding wheel condition (ring test, face - Check gridding wheel condition (ring test, face - Check gridding wheel condition (ring test, face - Confirm coolant flow, mixture, and nozzie direction - During use: - Use the correct flanges, mounts, and spacers for each saw and machine - Mixture for vibration, overhading, or chatter - Mixture of the vibration, overhading, or chatter - Valen grinding stations and tension tools - Drain or refili coolant systems as needed - Drain or refili coolant systems as needed - Train or refili coolant systems as needed - Regular maintenance includes: - Regular maintenance includes: - Call brain systems and tagging out unsafer - Call braining tension and drop gauges against known - Standards - You record maintenance tasks in a shop log or - checklist	Poorly maintained equipment leads to - Inaccurate tensioning or grinding including the second
BS01	Band Saws	Properly swage teeth or replace Stellite inserts	Swaging and Shaping Procedures BC Saw Fier Level 1, Sections 7-3-1 to 7- Scallite Tip Removal and Welding BC Saw Fier Level 2, Sections 6-2-3 to 6-4-1.	Band saw teeth must be prepared with the correct cutting width and clearance to ensure straight cuts, stable tracking, and efficient chip removal. This is achieved by either swaging (cold-forming the tooth by or replacing Stellite Inserts (hard-surfaced tips brazed to the saw). The same of th	For Swaged Teelt: "You identify the correct saw gauge and tool has pacing before sequence upon the swage of automatic waveglehaper depending on shop equipment swage in the properties of the swage of t	Improper swaging causes: - Iversity of the control
BS02	Band Saws	Check and maintain tooth alignment	*Tooth Alignment Procedures BC Saw Fier Level 1, Section 7-2-6	Tooth alignment refers to the position, height, and angular accuracy of each tooth on the saw. Poor "irregular culting load "Saw vibration "Premature west and useen tooth princing "Premature was and useen tooth princing alignment using gauges and hand tools—especially before tensioning or grinding."	- You use a both alignment gauge (with or without a dial indicator): - Place the gauge on the saw and advance tooth by tooth Place the gauge on the saw and advance tooth by tooth Place the gauge on the saw and advance tooth by tooth For minor misalignment: - Use a set wench to bend the tooth carefully back to "Apply pressure slowly and deliberately—don't overstress the root overstress and the root overstr	Misaligned teeth cause: Vibration and snaking cuts Lineven wear and guilet cuts Control making and reduced tension performance Ignoring this step can light to the signal performance in the signal performan
BS03	Band Saws	Grind teeth to proper geometry and regrind gullets as required	- Troth and Guilet Grinding BC law Filer Level 1, Sections 7-4-15 to 7- 4-18 km Front Chinding Techniques BC Saw Fier Level 1, Sections 13-3-3 to 13-3-4		Not determine tooh form (c.g., straight, silver, hooked) and select the correct: «Grinding carn profile **Content profile **Content profile **Content profile **Content profile **Content profile grinding or top-and-face grinding replicates the full tooth shape using a carn **Profile grinding replicates the full tooth shape using a carn **Content profile grinding taggles wear zones only only one and spile according to sea ordering to sea order	Improper grinding leads to: - Uneven cutting pressure and saw drift - Excessive guilet stress Loss of kerf or burn lines in lumber - Shortned saw life due to chipped or debromed seeth chipped or debromed seeth - Efficient chip for - Efficient chip for - Efficient chip de pressure
BS04	Band Saws	Repair weld teeth and cracks	Crack Detection and Weld Procedure BC Saw Filer Level 1, Sections 9-7-3 to 9- Peaning and Strain Relief Saw Filer Level 3, Section 5-4-7 -Crack Inspection Tolerances Saw Filer Level 1, Section 6-9-2	Tooth breakage and cracks in bandsaws must be repaired using proper welding, crack stop drilling, and post-weld stiers self. These repairs recitors tooth repairs and prevent cracks from spreading across the plate. You must know how to identify weldable vs. scrap damage, prepaire and weld properly, and peen or grind the area to restor balance and safety.	Grind flush to plate or tooth face Inspect for porosity, pits, or incomplete fusion	Unrepaired or poorly welded cracks: - Spread quickly under feed strain - Lead to catastrophic failure (snapping or exploding blades) in tension and poor cut quality. Weld repairs extend saw life, reduce replacement in the control of the control o

BS05	Band Saws	Explain and demonstrate proper leveling of band saw	Leveling Techniques and Inspection BC Saw Filer Level 1, Section 13-1-1 - Bask Maintenance and Plate Prep Sow Filer Level 1, Section 13-1-2	Leveling is the process of removing twist, humps, dish, and other distortions from a bandsaw plate to restore flatness. This is droudstonal benching skill and must be performed before any tensioning. A perfectly performed before any tensioning. A perfectly performed before any tensioning. A perfectly performed before any tensioning skill and the property, and doesn't develop reads or heat stress under speed. Leveling requires the ability to detect surface imagisarilies under 0.022 and correct them using proper hammer techniques and online skelp.	- You place the saw on a certified leveling slab: - Plate must be clean and free of oil, chips, or pitch - You verify that stab surface is dead-flat using a - You use a bright inspection light and a straightedge to: - Hoese thigh spots, ridges, twist, and dish - Sweep straight surface to the straight surface - Sweep straight surface to the straight surface - Sweep straight surface - You select the correct crowned leveling harmer: - Light harmer for fine work - Light harmer for fine work - Work in sweep straight surface - While leveling: - You have six fine a cross the long axis of the bump or ridge - Work in small overlapping zones, rotating the saw as needed - You frequently re-check with straightedge to prevent - You avoid harmering: - In the gullet area - Horse straight surface - Once faltness is restored: - You confirm the plate is within 0.002* total deviation across all regions - You do not proceed to tensioning until leveling is	Unleveled saws: • Wander during the cute at guides a feat at guides Fall tension lests and lead to guilet cracking - Produce poor tumber quality and cause guide Leveling is the Foundation of all saw performance. Even the beat-vensioned saw will fail if it hasn't been been because of the common saw will fail if it hasn't been been common fail to be the common saw will fail it in basn't been been common fail to be the common fail to be th
BS06	Band Saws	Explain and demonstrate proper tensioning of band saws	Tension Gauge Technique and Tension Location Tension Rer Level 1, Sections 13-4-1 to 13-4-3 "Tire Line Identification and Strain Compensation BC Saw Fier Level 3, Section 5-4-1 BC Saw Fier Level 3, Section 5-4-6 to 5-4-12	Tensioning is the introduction of a controlled internal stress pattern in the saw plate to help the blade resist deflection, heat, and strain during high-speed cutting. Tensioning creates a tension ring—a stress-releved zone typically located between the guilet and the back. and cut accuracy. A tensioned saw hould open slightly under flex and return to its natural shape without dishing.	- Before beginning: - The saw must be fully levelled - You mark the tension radius and the line using a back gauge and layout tool back gauge and layout tool back gauge and layout tool back gauge stems of the layout guilet and above back edge - Season gauge with light source and straightedge - Independently layout grows and song concave) areas - At ension gauge with light source and straightedge - Independently layout grows and song concave) areas - BC Saw Filer Level 1, Section 13-4-1 - You apply tension using: - A stretcher roll for uniform stress application - Gold direction and overlage carefully controlled - Gold direction and overlage carefully controlled - Old direction and overlage carefully controlled - Adjustments are made based on saw condition: - Adjustments are made based on saw condition: - Adjustments are made based on saw condition: - Nou verif, - It is specient to allow meals to draw in - Nou verif The tension ring is uniform and concentric - The tension ring is uniform and concentric - The tension ring to shope when fleed and does not - Final ring position aligns with wheel crown and - Strain system.	Improper tensioning causes. • Futter, snaking, and poor cut control and guild reading. • Loss of kerf and dangerous saw failures Correct tension gives the changerous saw failures and resistance to thermal distortion. It's the signature of a skilled files.
BS07	Band Saws	Operate and maintain saw shop equipment required for band saw maintenance	Stretcher Roll Setup and Maintenance BC Saw Filer Level 1, Section 5-3-5 - Leveling Slab and Hammer Bench Maintenance 4-3, Section 5-2-8 - Tool Storage and Organization BC Saw Filer Level 1, Section 5-1-6	Band saw maintenance depends on a wide range of specialized equipment including leveling annies, systems, and inspecion sales. Filem must not only know how to use this equipment—but how to inspect, clean, calibrate, and no buildenot if .7 this task is about ensuring precision, reliability, and safety across all shop equipment.	- Stretcher Roll: - Inspect crown radius (typically 10" radius, or 6" for thin-gauge sawey) and roll contact so the saw feeds thin-gauge sawey) and roll contact so the saw feeds that, without side deflection - Check that rollers are concentric and tubricated - Clean swarf and oil build-up from guides and feed to clean swarf and oil build-up from guides and feed to confirm surface is nick-free and dead-flat - Use straightedge and flashlight to check for high spots - Saw Filer Level 3, Section 5-2-8 - Inspection Tools (back gauge, drop tester, Clean Inness and measuring surfaces before and after use - Saw Filer Level 3, Section 5-2-8 - Inspection Tools (back gauge, drop tester, Clean Inness and measuring surfaces before and after use - BC Saw Filer Level 1, Section 5-2-1 - Lighting and Lift Systems: - Level 1, Saction 5-2-1 - Lighting and Lift Systems: - Filerspect lift assist systems (flued) for travel range, locking, and alignment Locking, and alignment Locking, and alignment belts, cracked grinding wheels, or losse guards - Lubricate all moving parts using recommended shop - Document findings and tag out any unsafe or out-of-spec equipment.	equipment causes: • Inaccurate tensioning and leveling • Grinder chatter and out-of-round wheels • Dropped or warped saws • Lost time due to faulty tools or misdiagnosed issues Well-maintained equipment produces consistent, high-performance saws—and
BS08	Band Saws	Display proper technique for flipping a band saw	Flipping and Hand Change Instructions BC Saw Filer Level 1, Sections 7-1-2 to 7-1-3 - Band Saw Handling Hazards BC Saw Filer Level 1, Section 2-1-10	Flipping a band saw (changing its "hand") is necessary to prepare it for left- or right-hand cuts, depending on mill configuration. Due to the size, tension, and stored requires physical coordination, situational awareness, and teamwork.	Vou inspect the saw: -Confirm whether it's a right-hand or left-hand saw based on both direction -Plann the fip direction and clear space on all sides -You follow saw size rules: -You foliow saw size rules: -You foliow saw size rules: -You foliow saw size rules: -You grib the size of th	Improper flipping can result in: Lacerations or uncontrolled movement Cracked or distorted saw

BS09	Band Saws	Proper disposal of band saws	Band Saw Disposal and Handling Rules BC Saw Filer Level 1, Section 2-2-13 Red Tag and Defect Removal Protocol CSaw Filer Level 1, Section 7-1-4	Band saws that are cracked, twisted, or worn beyond repair must be safely and permanently removed from service. Colling saws for disposal is strictly prohibited due to the stored spring energy in the back. Proper disposal involves utiling the saw into short expect of the same strictly represented to the same strictly represented to the same strictly represented for eliminating workplace hazards and preventing damaged saws from being mistakenly reusely.	- You inspect the saw to confirm it's beyond service: - Volutible guilder cracks - Loss of back (overground or fractured) - Tension or leveling failure - Exceeded crack or twist limits based on mill policy or confirmation of the saw clearly You man't the saw clearly You man't the saw clearly You man't be saw clearly You man't be saw clearly You nam't be disposal in shift record or defect log clear to the saw clearly Log reason for disposal in shift record or defect log clear to the saw clearly Use a red tag or disposal in shift record or defect log clear to the saw clearly Use a red tag or disposal in shift record or defect log clear to the saw clearly Use a red tag or disposal in shift record or defect log continued in the saw clearly described—no loops or coiled ends - Could ends - Could fail to the saw clearly described—no loops or coiled ends - Could ends - Could fail to the saw clearly described—no loops or coiled ends - Well or the saw clearly the saw clearly described A steel scrap bit labeled for metal disposal - Never in garbage or storage areas Never attempt to bundle or wire saws together for disposal	Colled saws can uncoil velority, causing velocity, causing an impact injuries - frail incident of relatin incident is ejected or dropped or Reintroduction of Reintroduction of Sentroduction of Sentroduction of Sentroduction stoppage - Sentro
BS10	Band Saws	Recognize and safely address hurt or wrecked band saws	Wirecked Saw Identification BC Saw Filer Level 1, Section 7-2-3 - Crack, and Damage Removal from Service 2-2-14 Fault - Viscotion 2-2-14 and	You are responsible for identifying saws that are no longer fit for service due to cracks, twist, guillet deformation, less of back, or tacking damage, Hurt or rotation, lagged, and either repaired or scrapped based on defined safely limits. This competency is about keeping unsafe blades off the machine lare before they fail.	- You inspect band saws using: - Straightege, backjahing, and flashlight - Visual and tactile inspection along guilets, back, and - Visual and tactile inspection along guilets, back, and - Visual background and tactile inspection along guilets, back, and - Visual background and tactile inspection along - Yives that exceeds leveling ability - Visual that exceeds leveling ability - Visual that exceeds leveling ability - Visual part of the state	Running a damaged saw billion and control of the control of the billion of the control of the control of the riliquir to operators or 'Collaberal damage to guides, wheels, and feed components' wheels and feed components' of the control of the 'Wasted material and Early identification protects people, tools, and machines—and resinforces part of the filing tradels.
BS11	Band Saws	Checking and maintaining straight edges and other tools	*Tool Maintenance and Cleaning BC Saw Fier Level 1, Section 3-2:2 -Filing froom Procedures and Beach Care 1-Tool Organization and Strang Commission and Strang BC Saw Fier Level 1, Section 5-1-6	Straightedges, micrometers, back gauges, and dial indicators are precision measurement tools used during leveling, tensioning, and inspection. Their reliability is critical. It is straighted by exemped, dirty, or You are responsible for keeping all precision tools clean, damage-free, calibrated, and properly stored.	- Before and after every use: - Wipe down tools with a soft lint-free cloth - Remove all pitch, filings, or oil - Remove and a stangishedge across a saw plate or - hard surface - For micrometers, back gauges, and dial indicators: - For micrometers, back gauges, and dial indicators: - For micrometers, back gauges, and dial indicators: - Remove and the second complete of t	Precision tools that are dirty, damaged, or misused lead to: False the second lead to the second le
BS12	Band Saws	Calibration of back gage	Back Gage Use and Maintenance BC Saw Fier Level 1, Section 5-2-1 Princision Tool Care BC Saw Fier Level 1, Section 3-2 Filing Room Tool Organization BC Saw Fier Level 1, Section 5-1-6 Saw Fier Level 1, Section 5-1-6	The back gauge (also called back gage) is a specialized inspection tool used to delect saw back curve, the line, and sension ring shape. You must ensure this tool is accurate, undamaged, and properly zeroed every time it is used. Calibration ensures that readings are trustworthy—even a 0.002* deviation in reading can result in a tensioning error.	- Before each use: - Visually inspect for bent lips, loose fasteners, or surface damage - Honure indicator reads zero when placed on a certified flat surface - If not, live-zero or reset the dial indicator - If not, live-zero or reset the dial indicator - Compare back gage readings to a reference straightedge or certified master saw - Confirm that all moving parts glide smoothly and do not brind or rock - After use After use After use If the confirm of the	Back gage calibration affects - Accuracy of tension verification - Tree line positioning - Overall failures and Using a miscalibrated tool Using a miscalibrated tool tonduces false tension zones, leading to vibration, over
BS13	Band Saws	Handling, storage and transportation of band saws	- Hamiling and Transportation Rules BC Saw Fier Level 1. Section 7-1-3 - Filing Room Safely and PPE BC Saw Fier Level 1. Section 2-1-10 - Saw Storage Practices BC Saw Fier Level 1. Section 7-1-4	Band saws are large, heavy, and under tension—even when out of service. They must be handled with strict afterion to safety, stored to prevent distortion, and attended to safety stored to prevent distortion, and equipment.	- When moving band saws: - Wear steel-be boots and cut-resistant gloves - Aways shift from the back side, away from the teeth saws (10"-) go or mechanical assistance for wide saws (10"-) go or mechanical sessitance for wide saws (10"-) go or children or saws (10"-) - Never: - File saws horizontally over children or uneven floors - Saws (10"-) go or children or uneven floors - Coll a saw without proper tooling and clearance - For storage: - For storage: - For storage: - For storage: - Never store flat on concrete or stack saws - Never store flat or concrete or stack saws - Never store flat or concrete or stack saws - Never store flat or concrete or stack saws - Never store flat or concrete or stack saws - Never store flat or concrete or stack saws - Never store flat or concrete or stack saws - Never store flat or concrete or stack saws - Never store flat or concrete or stack saws - Never store flat or concrete or stack saws - Never store flat or concrete or stack saws - Never store flat or concrete or stack saws - Never store flat or concrete or stack saws - Never store flat or concre	Poor handling and storage causes: Permanent saw damage Increased risk of failure during use during use during use during use saw spring-back or unexpected movement of the same desired proposed both personnel and high-value saw—and finiforce a professional fining room steaded.

					Pro alignment checks:	
MMS01	Mill Machine Set-Up	Set-up and align head rig (incl. strain, guide pressure, crossline)	Heading Setup Principles BC Saw Filer Level 3, Sections 6-2-1 to 6-2 Guide Pressure and Strain Setup BC Saw Filer Level 3, Sections 6-5-4 to 6-5-8	The headrig is the primary saw assembly that cuts logs into cants and fiftches. Accurate setup ensures: The saw runs straight on the cut line The strain system compensates for heat and the property of the same strain system control of the same strain system	evenly	Incorrect heading setup leads to: -Saw snaking or -Inconsistent tumber thickness and cant taper -Excessive guide and bearing wear ground temperatures and tension collapse A precisely aligned heading produces stright cuts, consistent tumber dimensions.
MMS02	Mill Machine Set-Up	Set-up circular gang saws (incl. arbor runout and wear)	Reference: *Circular Clarp Setup and Arbor Inspection BC Saw Fier Level 2, Sections 11-5-7 to 11-3-30	Gang saws consist of multiple circular saws mounted on a common aftor, used for high-speed rapping. -Abor inspectives. -Runout measurement -Runout measur	Integret arbor system: - Clean arbor and check for wear or sooring - For keyed or spilined systems: - OMeasure groove and key depth - Oregane and sey depth - Oregane and sey depth - Oregane all sey depth - Oregane and se	Incorrect gang saw setup causes - Wany cuts and board variation - Saw wobble, heat of caracking - Premature saw failure due to after missignment - Excess vibration Collars, and bearing A precise gang setup maximizes cuttil (iii.e. especially under high-volume ripping conditions.
MMS03	Mill Machine Set-Up	Set-up band mill (incl. strain, guide pressure, crossline)	Bandmill Setup Sequence BC Saw Filer Level 3. Sections 6-2-1 to 6-2-3 Sam Filer Level 3. Section 6-5-6 C Saw Filer Level 3. Section 6-5-6	Setting up a band mill involves aligning the saw line, top and bottom wheels, strain system, and guide pressure so that the saw tracks properly and cuts with exact positioning of a flowlie blade—meaning small errors lead to wandering cuts, guide wear, and tension failure. View exceeds to restore the mill to square As a filery and functional tension balance every time a saw is installed.	Lock out and prep: Lock out and prep: Lock out all energy sources (electrical, pneumatic, hydraulci, hydraulc	Incorrect band mill setup leads to: "Saw drift and inconsistent board thickness and blades, lost tension, and guilder cracking a Rapid guide wear and noisy operation ment and tumber defects." This setup ensures that your blade is square, stable, and fully and offer and feel goods."
MMS04	Mill Machine Set-Up	Regrind band saw wheels as required	Wheel Water Effects and Tracking SC See Filer Level 1. Section 7-1.2 • Crown Profiles and Grinder Setup SC Saw Filer Level 2. Section 10-2.3 • Wheel Regrinding and Saw Alignment SC Saw Filer Level 3. Section 11-1.3	Over time, band wheels develop flat spots, tappring, or crown wear from friction and pressure. These deflects can cause the saw to wander, heat up, or crack, the specially near the back depth, Reprinding restores the property of the saw tracking and tire line positioning. You are expected to inspect, diagnose, and regrind wheels with extreme precision, using the proper grinder setup and wheel profile.	Inspect wheels for wear. Inspect wheels for wear. It was a straightedge and dail indicator to check for: oFlat spots oCouble crown or taper oUneven wear between lettright or top-bottom where we have been self-with the country of	Worn or improperly crowned wheels cause: - Saw instability and wibration - Guilde tracks from poor tracking in the control of

MMS05	Mill Machine Set-Up	Calculate and set-up cooling and lubrication as needed	Coolant Safety and Setup BC Saw Filer Level 1, Section 2-2-13 Cuduel Block Luthoration and Delivery Grant Coolant Flow and Setup SC Saw Filer Level 2, Section 10-2-3	Cooling and lubrication systems prevent overhealing, minimize firstion, and protect both the saw plate and contact surfaces such as guides, bearings, and wheels. These systems often use oil-water emulsions. As a filer, you are expected to: -Calculate correct coolant ratios -Set up delivery lines and nozzlessure, and darity -Ensure guide and grinding systems remain properly lubricated	- Coulder mixture setter. - Refler to meant-extent speed or mill standards for coolant concentration - Feller in smarketure speed or mill standards for coolant concentration - Typical ratio - Se-No I to water for grinding applications - Leading the setting of the setting speed or setting speed or setting	Improper coolant setup leads to: Heat tint and coolant setup leads to: Heat tint and coolant setup of saw teeth or coolant setup of saw teeth or coolant setup. Setup of saw teeth setup of saw the same setup of saw the same setup of same set
MMS06	Mill Machine Set-Up	Calculate and set proper speeds and feeds	• Feed and Speed Calculations BC Saw Filer Level 2. Saction 9-34 • Saw Spec Table and Performance Chart BC Saw Filer Level 2. Saction 9-14 • Kerl Fact Tools tille Measurement BC Saw Filer Level 1. Section 9-44 • Kerl Fac	Speeds and feeds refer to the relationship between saw rotation (RPM), feed rate (FPM), and tooth geometry. These factors determine how efficiently a conducting edge. When the stain is placed on the pate and cutting edge. You must use mathematical formulas to calculate: -Tooth bite (feed per tooth) -Rim speed (surface feet per minute) -Chip load and bert behavior	Rim Speed (SFM)=rr-Diameter (in)+RPM.12text(Rim Speed (SFM)) = pit times text(Diameter (in)) times Vfac(text(RPM))(12)Rim Speed (SFM)=r-Diameter (in)+12RPM - Cross-reference tooth pitch, guilet spacing, and hook angle to ensure chip load is balanced - Mill setup sheet - Digital system or shift tog	Incorrect speed or feed setup causes: Overfeeding — both breakage, gullet cracking, overheating
MMS07	Mill Machine Set-Up	Checking and maintaining scrapers, shears and covers	Machine Guard and Safety Cover Requirements Bo Saw Filer Level 1, Section 2-1-12 Schor Filer Until 1, Section 2-1-12 Control Control Saw Filer Level 1, Section 7-1-1 Protective Cover and Interface Devices Cas Filer Level 3, Section 11-2-1	Scrapers, shear plates, and protective covers ensure: -Clean board surfaces -Operator safety near high-speed rotating systems -Coperator safety near high-speed rotating systems -Coperator safety near high-speed rotating, dearing, and -replacing these components regularly to prevent -detects, sims, and injury.	Scraper maintenance: - Clean builds of aly to prevent interference with saw tracking - Look for signs of gouging or bending from board impacts - Look for signs of gouging or bending from board impacts - Clean builds of the clean control of the	Wom or missing scrapers and shears cause: Tracking issues, burning, Tracking issues, burning,