Second Semester TA Training Checklist

EML2322L TA's will be asked to complete second semester projects to demonstrate proficiency with the tasks detailed below. Tasks can only be signed off by senior lab TA's. Please complete each task on a part of your choosing, one of the TA Training Parts on the course website, or one of the TA Projects listed on the TA Google Sheet. Before attempting a task, throughly review the link below and ask a senior TA to check your setup and technique before proceeding to ensure you don't damage equipment or tools.

TA Name:	Semester:	*Checklist Rev: C*

Level	Category	Task / Document	Completed	Date
Basic	General Knowledge	Review ALL of the first semester's level BASIC tasks so you are knowledgeable and confident about each and prepared to teach them to new TAs		
Basic	General Knowledge	Complete First Semester TA Training Assessment		
Basic	General Knowledge	TA Student Shop Assessment		
Basic	General Knowledge	Calculating Speeds and Feeds		
Basic	General Knowledge	Speeds and Feeds Assessment		
-	Reference Link	TA Training Parts link		
-	Reference Link	TA Projects Google Sheet link		
-	Reference Link	Review the Lab Resources page		
-	Reference Link	Machining Tips for Various Materials		
Strong	Engine Lathes	Using a collet chuck		
Strong	Engine Lathes	Indicating adjust tru chucks		
Strong	Engine Lathes	Using + indicating a four jaw chuck		
Strong	Engine Lathes	Precision boring and measurement		
Strong	Engine Lathes	Using part-off tools		
Strong	Engine Lathes	Using live center		
Strong	Engine Lathes	Using compound slide to cut shallow taper		
Strong	Engine Lathes	Cutting external threads with a die		
Strong	Engine Lathes	Rigid tapping		
Strong	Engine Lathes	Single point threading and thread measurement		

Strong	Engine Lathes	Knurling		
Strong	Milling Machines	Tramming vise parallel to X axis		
Strong	Milling Machines	Using 5C collet block		
Strong	Milling Machines	Rigid tapping		
Strong	Milling Machines	Using alternative vise jaws		
Strong	Milling Machines	Precision boring and measurement		
Strong	Roll-In / Do-All Bandsaw	Changing bandsaw blade		
Strong	Fasteners	Attend advanced fastener lecture so you understand how to use fasteners properly, and how to fix them when someone else doesn't		
Strong	Rivets	Rivet selection and use		
Strong	Clekos	Cleko clamp selection and use		
Strong	Metrology	Using ID micrometers		
Strong	Metrology	Using telescoping bore gages		
Strong	Metrology	Using gage blocks & gage pins		
Strong	Metrology	Different types of indicators and their uses (dial, drop, coaxial)		
Advanced	AWJ	Abrasive Water Jet		
Advanced	Engine Lathes	Changing chucks		
Advanced	Engine Lathes	Changing lathe inserts		
Advanced	Milling Machines	Tramming head normal to X-Y plane		
Advanced	Welding	TIG Welding		
Advanced	TM-2 CNC Milling Machine	Create lathe gage (CNC, CAM, setup, cutting)		

advanced training is not required for all TAs, but using these skills pay 1.5 times normal payrate