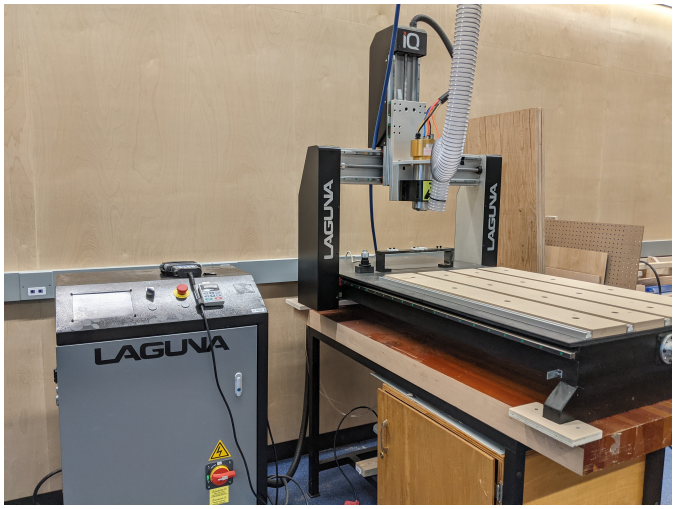
CNC Router

About	A CNC router is a computer-controlled router tool that cuts, trims, and carves/engraves a workpiece. This CNC Router can be used for 2.5 axis and 3 axis machining to make a variety of objects such as molds for the vacuum former, functional parts, and signs/plaques. Specifications: • Work Volume (X, Y, Z): 609 x 914 x 304 mm [24 x 36 x 12 in] • Spindle RPM: 6000 - 24000 RPM • Max Feed Rate: 2540 mm/minute [100 IPM]
Category	Woodworking
Location	Back Room
Brand /Model	Laguna iQ Pro
Status	AVAILABLE

Materials	• Woods
	  ◦ MDF
	  ◦ Plywood
	  ◦ Soft wood
	  ◦ Hard wood
	• Plastics
	• Foams



Standard Operating Procedure

Google Apps Sign-in Required

You must login to your uAlberta Google apps account to access these files.

Training

Sign up for training here: Training Registration Calendar

Training	Type	Time Estimate	Prerequisites	Checklist/Document
CR - 1A Fundamentals	SELF-GUIDED DOCUMENT	1 hr.	None	
CR - 1B Introductory	ON-MACHINE	2 hr.	CR - 1A Fundamentals	
CR - 2A ATC Preparation	SELF-GUIDED DOCUMENT		None	
CR - 2B ATC Introductory	ON-MACHINE		CR - 1B Introductory and CR - 2A ATC Preparation	
CR - 3A CAM Preparation	SELF-GUIDED DOCUMENT		None	
CR - 3B CAM Introductory	ON-MACHINE		CR - 2B ATC Introductory and CR - 3A CAM Preparation	

Documentation

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Safety Data Sheets	N/A
Hazard Assessments	

Application Resources	• CNC Router Machining Parameters
	• Laguna specifications and videos
	• How to use Break Work function (save stop points)
	• VCarve Pro
	•
	  ◦ User Manual
	  ◦ Main YouTube Page
	  ◦ User interface and file setup
	  ◦ Tool database guide
	  ◦ Toolpaths
	  ▪ Pocket toolpaths
	  ▪ Profile toolpath
	  ▪ Quick engrave toolpath
	  ▪ Inlay toolpath

Manufacturer's Manuals	