

Powered Standards- Computer-aided Drafting & Design (CADD)

Grade	Semester #1	Grade	Semester #2	Grade	Semester #3
	Goals to be Completed (limited)		Goals to be Completed (limited)		Goals to be Completed
9	9-1 Demonstrate Workplace Safety	9	9-1 Demonstrate Workplace Safety	9	9-1 Demonstrate Workplace Safety
	9-2 Explore career options in the fields of drafting, design, and engineering		9-2 Explore career options in the fields of drafting, design, and engineering		9-2 Explore career options in the fields of drafting, design, and engineering
	9-3 Identify and demonstrate the appropriate use of basic drafting equipment		9-3 Identify and demonstrate the appropriate use of basic drafting equipment		9-3 Identify and demonstrate the appropriate use of basic drafting equipment
	9-4 Identify and demonstrate proper freehand lettering and sketching techniques		9-4 Identify and demonstrate proper freehand lettering and sketching techniques		9-4 Identify and demonstrate proper freehand lettering and sketching techniques
	9-5 Produce basic geometric constructions		9-5 Produce basic geometric constructions		9-5 Produce basic geometric constructions
	9-6 Understand orthographic projection principles		9-6 Construct simple multi-view drawings using orthographic projection		9-6 Construct multi-view drawings using orthographic projection
	9-7 Understand basic pictorial drawing principles		9-7 Create simple pictorial drawings		9-7 Create pictorial drawings
10	10-1 Demonstrate Workplace Safety	10	10-2 Create intermediate level orthographic drawings	10	10-2 Create intermediate level orthographic drawings
	10-2 Create intermediate level orthographic drawings		10-5 Create section view drawings		10-7 Understand and apply common threads and threaded/non-threaded fasteners on an engineering drawing(s)
	10-3 Apply basic dimensioning practices to working drawings		10-6 Create auxiliary view drawings		
	10-4 Basic Product Data management				
11	11-1 Demonstrate Workplace Safety	11	11-2 Create a set of mechanical working drawings	11	11-2 Create a set of mechanical working drawings
	11-2 Create a set of mechanical working drawings		11-4 Apply tolerances to mating parts on working drawings		11-7 Implement good design practices and principles
	11-3 Construct working drawings utilizing 3D solid modeling software		11-5 Identify and explain common manufacturing materials and processes		11-8 Understand basic Lean Manufacturing Principles and Concepts
			11-6 Intermediate PDM/Revision Control on working drawings		
12	12-1 Demonstrate Workplace Safety	12	12-3 Engineering Design - Project Based	12	12-3 Engineering Design - Project Based
	12-2 Apply advanced dimensioning practices, using Geometric Tolerances, to working drawings		12-4 Demonstrate good job search and interview skills		12-4 Demonstrate good job search and interview skills
	12-3 Engineering Design - Project Based		12-5 Create development drawings		
	12-4 Demonstrate good job search and interview skills				

*The numbered Power Standards above represent essential and enduring core knowledge and skills. View entire curriculum @ www.cttech.org 2009