# §130.402. Engineering Design & Presentation I (One Credit), Adopted 2015. – Abridged Version

# DOMAIN 1 – PROFESSIONAL PRACTICE

(1A) demonstrate knowledge of how to dress, speak, and conduct oneself in a manner appropriate clear, conc for the profession

(1B) show the ability to cooperate, contribute, and collaborate as a member of a group in an effort to achieve a positive collective outcome

(1E) demonstrate punctuality, dependability, reliability, and responsibility in performing assigned tasks as directed

(2D) demonstrate teamwork

(2E) use appropriate work habits

(2I) appropriate actions & consequences relating to discrimination, harassment, & inequality

(5E) maintain, safely handle, and properly store tools, equipment, & machines

### DOMAIN 2

(1C) prese

(1D) demor prioritizing performing produces et

(2H) demor

(2J) effectiv using softw

(3A) demor

(3B) apply

(3C) Serve

(7C) use rat product

(7E) use an process

(7G) use ar design

(8D) produ standards

2 – OFFICE PRACTICE	DOMAIN 3 – CAREER RESEARCH	DOMAIN 4 – PROJECT ORGANIZATION	DOMAIN 5 - INDUSTRY MATE
ent written and oral communication in a ise, and effective manner	(2A) compare and contrast engineering technician, engineering technologist, & engineer	(4A) Implement project management methodologies	(2F) demonstrate knowledge regulations (incl. health and sa
nstrate time-management skills in	(2B) identify employment & career opportunities	to established criteria	(2G) discuss the ethical issues
g casks, following schedules, and g goal-relevant activities in a way that	(2C) work toward industry certification	(4C) organize & operate a simulated engineering project	(5A) master relevant safety te
encient results	(2K) explore career prep opportunities	(4D) plan an individual plan to create a product	(5B) follow lab safety guideline
ve oral & written communication (e.g.,	(8E) describe the patent process	(6A) identify and describe the fundamental processes needed for a project, including the design	federal regulations
vare)		process and prototype development and initiating, planning, executing, monitoring and controlling, and	(5C) recognize the classification materials and wastes
nstrate an understanding of teamwork		closing a project	(5D) dispose of hazardous mat
in various roles as a team member		(6C) use problem-solving techniques to develop technological solutions	appropriately (5E) describe the implications
tional thinking to develop or improve a		(6E) assess the risks and benefits of a design solution	improper maintenance
		(7A) demonstrate ideation	(5G) describe the results of ne
n engineering notebook to record the		(7B) demonstrate critical thinking and make fact- based decisions	(6A) use multi-view projection
			(6B) use orthographic and pict
n engineering notebook to record the final		(7D) apply decision strategies	(6C) use auxiliary views
ice engineering drawings to industry		(8C) improve a product design	(6D) use section views
		(10A) identify the steps needed to produce a prototype	(6E) use construction techniqu
		(10B) identify appropriate tools, equipment, and	(6F) create a multi-dimension

(10C) present a prototype using various media

machines to produce a prototype

(6J) create a prototype drawing for presentation

(8A) use technology to design components

### ERIALS & METHODS

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nal drawing (CADD)

(6G) demonstrate file management techniques

(6I) create a 3D parametric object

# DOMAIN 6 - MATHEMATICS & PHYSICS PRINCIPLES

(8B) demonstrate the use of precision measuring instruments