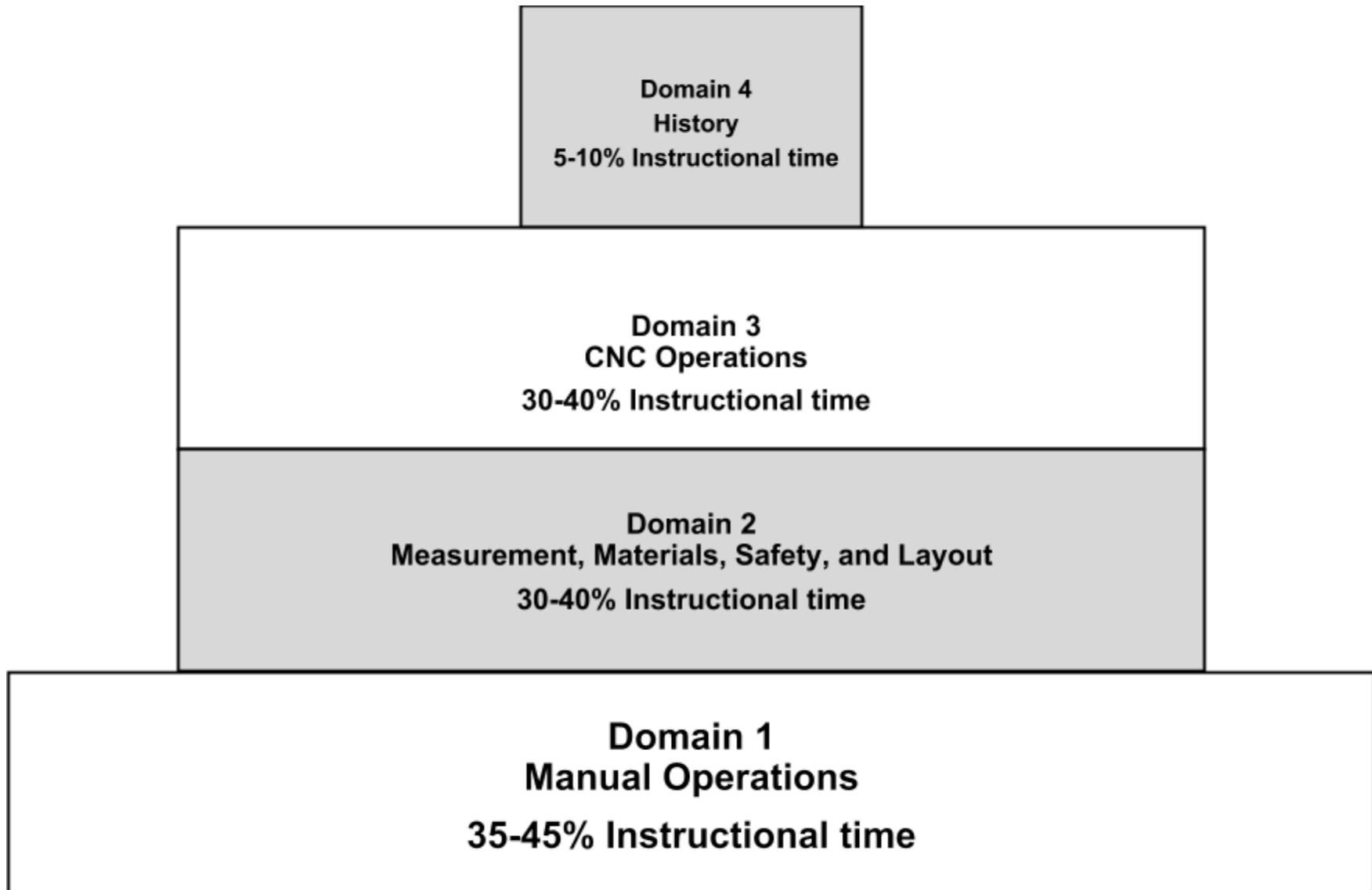


Content Domains

Precision Machining 48.0500.30



The technical standards for the Precision Machining Program are clustered in 4 domains. The greatest percentage of instructional time will be spent on domains 1, 2 and 3 with less time on domain 4. Students who complete the program should demonstrate a thorough knowledge in each of these domains.

Content Domains, Standards and Instruction

Precision Machining
48.0500.30

Domain	Related Standards	Instructional Time
Domain 1 Manual Operations	STANDARD 6.0 PERFORM BASIC DRILL PRESS OPERATIONS STANDARD 7.0 PERFORM BASIC TURNING OPERATIONS STANDARD 8.0 PERFORM BASIC MILLING OPERATIONS STANDARD 9.0 EXPLAIN BASIC PRECISION GRINDING OPERATIONS	35-45%
Domain 2 Measurement, Materials, Safety, and Layout	STANDARD 2.0 APPLY INDUSTRY SAFETY STANDARDS FOR PRECISION MACHINING STANDARD 3.0 IMPLEMENT PRECISION AND SEMI-PRECISION MEASUREMENT STANDARD 4.0 DISTINGUISH AMONG TYPES OF MATERIALS AND ROUTINE MAINTENANCE REQUIREMENTS STANDARD 5.0 DESIGN A JOB PROCESS PLAN INCLUDING BENCHWORK AND LAYOUT	30-40%
Domain 3 CNC Operations	STANDARD 10.0 DESCRIBE BASIC OPERATIONS OF A CNC MACHINE STANDARD 11.0 PERFORM BASIC CNC TURNING OPERATIONS STANDARD 12.0 PERFORM BASIC CNC MILLING OPERATIONS STANDARD 13.0 ASSESS ADVANTAGES OF USING COMPUTER AIDED-DESIGN (CAD) AND COMPUTER-AIDED MANUFACTURING (CAM) SOFTWARE	30-40%
Domain 4 History	STANDARD 1.0 ANALYZE THE EVOLUTION OF PRECISION MACHINING	5-10%

Content domains are bodies of knowledge, skills or abilities to be taught or assessed. They are clustered as related to technical standards for instruction. The suggested percentage of instructional time is listed for each domain. Instructional time corresponds to the percentage of assessment items included on the Technical Skills Assessment 2018