

CAD Drafter Competencies

Within this occupation, there are two tracks: Mechanical Drafting and Macro Drafting. These tracks share the same set of required competencies, but many differ in the optional competencies selected by the employer.

Required Competencies:	
Applied Mathematics	Applies basic concepts in geometry, trigonometry, and algebra to design.
Project Management	Plans, documents, and completes personal work activities to meet drafting project objectives and deadlines. Communicates effectively with supervisor regarding personal work activity plans.
Technical Drawings	Reads and interprets technical drawings.
Primary Drafting Software	Uses company's primary drafting software to create technical drawings.
Business Context	Incorporates knowledge of related business activities (ie. upstream or downstream) to drafting work and decisions.
General Engineering	Understands the relevant engineering discipline(s), such as mechanical engineering, civil engineering, electrical engineering, or structural engineering.
Industry and Company Design Standards	Understands and adheres to the relevant design standards.
Optional Competencies (choose 2 or more):	
<input type="checkbox"/> Business Technology Applications	Uses Microsoft Office and/or G-Suite business applications to accomplish work functions.
<input type="checkbox"/> Secondary Drafting Software	Uses company's secondary or more specialized drafting software to create technical drawings.
<input type="checkbox"/> Modeling Software	Uses software to create models.
<input type="checkbox"/> Mechanical, Electrical, and Plumbing (MEP) Systems	Understands the structure and operation of heating, ventilation, air conditioning, electrical, and plumbing systems.
<input type="checkbox"/> Manufacturing Equipment & Processes	Understands manufacturing equipment and the manufacturing processes used to create finished products.
<input type="checkbox"/> Manufacturing Quality Control	Understands quality control tools, practices, and systems.