

CURRICULUM: SOFTWARE-BASED DESIGN/MOTIF DEVELOPMENT

Brief Description: The individual uses CAD software and tools to produce various designs that are also practical for manufacturing. CAD drawings provide all the information that forms the basis for every product manufacturing stage.

Minimum Educational Qualifications : 12th Standard pass, preferably

Maximum Educational Qualifications : NA

Experience : NA

Personal Attributes: The job requires the individual to be capable of understanding design concepts and techniques; being creative; suggesting design changes; giving attention to details. The individual must have good eyesight, the ability to present and explain designs and be able to work in a process-driven team.

Task: Using Computer Aided Design (CAD), the designer produces drawings that serve as three-dimensional (3D) models for manufacturing products.

Description: The individual uses CAD software and tools to produce various designs that are also practical for manufacturing. CAD drawings provide all the information that forms the basis for every stage of manufacturing a product.

A) TECHNICAL KNOWLEDGE

Create a design using CAD

- Able to use CAD software
- Know about 2D hand sketch designs and blueprints
- Understand different shapes, sizes and dimensions
- Able to create 3D CAD graphic
- Know about design techniques, tools, and principles involved in the production of designs, drawings, and models
- Understand data management like storing and transferring files
- Know when to report any errors related to CAD designs

Respect and maintain Intellectual Property Rights (IPR)

- Have a good understanding of IPR.
- Know the basics of IPR and patent laws.
- Know the prevention and protection of manufacturing techniques practised in company.
- Have sound knowledge of company policies related to IPR.
- Understand what to do in case of violation of IPR rules.
- Understand what all IPR is inclusive of.
- Know the direct relation of IPR violation and its effect on the company's market competitiveness.

B) KNOWLEDGE AND UNDERSTANDING (Organizational Context)

The individual on the job needs to know and understand the following:

- Guidelines and standards for quality
- Safe working practices and procedures
- Job role and responsibilities
- Documenting procedure in case of faults in processes

- Guidelines for storage of materials
- Potential hazards associated with machines and safety precautions that must be taken
- Documentation formats

C) Soft Skills

- Verbal/ Non-verbal communication
- Interview skills
- Professional/social etiquettes
- Professional correspondence/ English