Kemendikdasmen
Direktorat Sekolah Menengah Kejuruan

lpdp
lembaga pengelola dana pendidikan

Professional 3D CAD Drafting

Micro-Credential Training Program: 3D CAD Drafter – MK001



Program Description

An advanced training program designed to develop technical drafting competencies using 3D CAD systems. The program focuses on interpreting technical requirements, applying quality procedures, using CAD systems effectively, and developing precise 3D models for manufacturing applications.

Training Structure

Technical Drawing & CAD Fundamentals

K3 Principles & Procedures, Quality Standards, Measurement & Mathematical Calculations.

2D Drafting

Reading Technical Drawings, Preparing Drawings, Creating 2D Drawings Using CAD Systems.

3D Modeling & Project

3D Modeling, Practical Exercises, Competency Demonstration, 3D CAD Drafter Assessment.

Learning Objectives

- Apply occupational health and safety (OHS) principles and quality procedures in CAD drafting activities.
- Use measurement data and technical calculations in the design process.
- Read and interpret symbols, dimensions, and technical drawings.
- Create detailed technical drawings using appropriate projections and tolerances.
- Create and modify 3D CAD models according to job specifications.

Training Details & Outcomes

General Information

Duration	48 Learning Hours (JP)
Method	*Instructor-Led Training, Demonstration, Guided Practice, Assessment.*
Requirements	Minimum senior high school or equivalent education, at least 2 years of relevant experience, and no color blindness.
Target	Vocational School Teachers and Instructors, CAD Lab Facilitators, and Design Engineering Technicians.

Training Output

- Able to prepare CAD drawings accurately and safely.
- Able to interpret drawing requirements for 2D and 3D outputs.
- Able to use CAD software to create and modify drawings.
- Able to develop 3D models with relevant data properties, including volume, mass, and center of gravity.
- Able to complete technical drawing demonstrations according to industry competency standards.

Training Certificate (Completion Certificate) issued by PT ATMI BizDEC.
Competency Certificate according to the selected scheme (BNSP or ATMI Industry Standards).

Program Advantages

- Hands-on Practice
- Industry Standards
- Technical Analysis
- Systematic Approach
- Expert Instructors

Registration

https://kredensialmikrosmk.kemendikdasmen.go.id/detail-pelatihan/02cbe0e3-4b06-40fc-96e1-22c99c571339

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ATMI BizDEC

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Regisvtration Deadline
28-30 September 2026