

STUDENT REPORT
MANUFACTURING PROCESS
PRODUCTION 1 AND ASSEMBLY



Arranged by:

(Name – Student Number)

(Name – Student Number)

Assistant Code	:	
Team	:	
Tutorial Class	:	
Yogyakarta, (Date, Month, Year)		
(Asisisstant)		

INTEGRATED MANUFACTURING SYSTEMS LABORATORY
INDUSTRIAL ENGINEERING STUDY PROGRAM
INDUSTRIAL TECHNOLOGY FACULTY
INDONESIAN ISLAMIC UNIVERSITY

2024



CHAPTER 2

PRODUCTION 1 AND ASSEMBLY

2.1 Tujuan Tutorial

Berikut merupakan tujuan praktikum pada mata kuliah Proses Manufaktur:

1. Practitioners know and understand the theory of the cutting grinding machine, welding machine, and hand grinding machine.
2. Practitioners know and understand the working principles of the cutting grinding machine, welding machine, and hand grinding machine.
3. Practitioners know and understand the tools used.
4. Practitioners are able to operate the machines to make Left Frame and assembly Coupler and Hook parts.

2.2 Tutorial Assignments

1. Study and understand the instructional video.
2. Study and understand the teaching module.
3. Analyze the functions and process flow machining.
4. Create an Operation Process Chart (OPC) and process planning sheet.

2.3 Work Steps

Contains the steps for making the Left Frame part and assembly Coupler and Hook parts.

2.4 Production Planning

2.4.1 Operation Process Chart

Contains the OPC for making the Left Frame part and assembly Coupler and Hook parts.

2.4.2 Process Planning Sheet

PROCESS PLANNING SHEET	
Number :	Page :
Part Number :	Image file :
Part Name :	Material :



			Dimension	Length :			
Created by :				Width :			
Date :				Height :			
Proce ss num.	Operati on Descrip tion	Workst ation	Setup	Tools	Setup time (s)	Process time(s)	Total time(s)
			Tools				
1.							
etc.							

2.4.1 Engineering Drawing

Contains the engineering drawing of the left frame part that has been made.

2.5 Analisis Part Left Frame

2.5.1 Left Frame Part Description

Contains the description of the left frame part and the dimension.

2.5.1 Cutting Grinding Machine

- Cutting Grinding Machine explanation
- Cutting Grinding Machine function
- Steps for using the Cutting Grinding Machine
- Cutting Grinding Machine PPE
- Analysis of the use of the Cutting Grinding

Practitioners mention the challenge faced and the solutions that can be implemented to prevent the mistakes from recurring.

2.6 Assembly Part Analysis

2.6.1 Welding Machine

- Welding Machine Explanation
- Welding Machine Function
- Steps for using the Welding Machine



- d. **Welding Machine PPE**
- e. **Analysis of the use of the Welding Machine**

Practitioners mention the challenge faced and the solutions that can be implemented to prevent the mistakes from recurring.

2.6.2 Hand Grinding

- a. **Hand Grinding Machine explanation**
- b. **Hand Grinding Machine function**
- c. **Steps for using the Hand Grinding Machine**
- d. **Hand Grinding Machine PPE**
- e. **Analysis of the use of the Hand Grinding**

Practitioners mention the challenge faced and the solutions that can be implemented to prevent the mistakes from recurring.

2.7



BIBLIOGRAPHY

**STUDENT REPORT FORMAT**

Information	Provision
Page Size	A4
Margins	Top: 3 cm, Bottom : 3 cm, Right : 3 cm, Left 4 cm
Alignment	Paragraph : Justify Images, Tables, Caption : Center
Font	Times New Roman
Font Color	Black
Caption	Captions use automatic captions. Caption pictures or graphics located below the picture, caption the table is located above the table
Citation and Bibliography	Use APA format
Delete the red writing and student report format when consulting student reports	