

A STUDY ON INNOFORGE PRIVATE LIMITED, Hosur
Report on Internship Training submitted to Periyar University, Salem
In partial fulfilment of the requirement for the award of the degree of
BACHELOR OF COMMERCE

Submitted by
GRACY.S
REG.NO.C21UG152COM033

Under the guidance
Dr P. MAITHILI M.Com, M.Phil., Ph.D.
Assistant Professor



DEPARTMENT OF COMMERCE
ST . JOSEPH'S COLLEGE OF ARTS Affiliated AND SCIENCE FOR
WOMEN
to Periyar University, Salem
Mookondapalli, SIPCOT, Hosur -635126
JULY- 2023

PERIYAR UNIVERSITY

INTERNSHIP TRAINING REPORT FORMAT

1	Name of the candidate	GRACY.S
2	University examination registration number	C21UG152COM033
3	Name of the college	St Joseph's college of arts and science for women, hosur
4	Name of the department /degree	Commerce/B.com
5	Name of industry/institute in which for internship training undergone	Innoforge private limited, hosur
6	Guide/supervisor under whom the training undertaken	Dr. P. Maithili
7	Title of the training	A Study on Innoforge private limited Hosur
8	Brief output of training (not more than 2 page)-attach annexure-1	(Enclosed)
9	Conclusion	The internship programme assisted in gaining both theoretical and practical knowledge.
10	Outcome of the training	The knowledge and skills acquired during the internship programme and the exposure to real world issues can now be applied in real-life business environment

Gracy.

Signature of the
Student

Dr. P. Maithili

Signature of the
Guide

Secretary

Head of the
Department

Principal

Principal

P. Maithili

Internal examiner

A STUDY ON INNOFORGE PRIVATE LIMITED

INTRODUCTION:

Innoforge private limited is a Non-government company, incorporated on 02.August, 2007. It's a private unlisted company and is classified as company limited by shares.

Name " INNOFORGE " is combination of words – innovation meaning "to renew or change" and forging indicating the process of metal forming process INNOFORGE PVT.LTD is one of the leading manufactures and exporters of exporters of various open forging, closed die forging and ring rolled products to customers associated with various industry segments in proof machined and fully machined condition. The company is promoted by 3 technocrats with varied experience, led By M.Rajavelu, Managing director, Who is Metallurgical Engineer with 25 years of experience in forging and heat treatment field. He guides a team of Engineers, skilled and equipped to handle forging process and other associated process company's ever improving system and practices, supported by tailor made ERP system, ensures delivery of ferrous forgings as per customer requirement on time and every time with quality, precision and metallurgical soundness.

STEP 1: RAW MATERIALS:

There are three types of raw materials used

- Carbon steel
- Alloy steel
- Stainless steal
 - Austenitic stainless steel
 - Martensitic stainless steel

STEP 2: CUTTING:

The Raw materials are cut into required dimension for the forging production.

The Machine used to cut the material are classified into three types based on the diameter.

Machine 1 - Maximum of diameter 450mm

Machine 2 – Maximum of diameter 245 mm

Machine 3- Maximum of diameter 100 mm

STEP 3: OPEN DIE FORGING:

Open die forging is the process of deforming a piece of metal between multiple dies that do not completely enclose the material. The metal is altered as the dies "stamp" the material through a series of movements until the desired shape is achieved. Products formed through open forging often need secondary machining and refining specifications.

STEP 4: CLOSED DIE FORGING:

Closed die forging [also known as impression die forging] is a metal forming process that compresses a piece of metal into a die impression. For some special shapes, a second forging operation is required to reach final shapes and dimensions. The type of material, tightness of tolerances, and need for that heat treatment can determine the cost of a closed die forged part.

STEP 5: HEAT TREATMENT:

It is the process of heating and cooling a metal product thereby to enable the intended properties for the fitment of the product.

HARDNESS TESTING METHOD:

BRINELL HARDNESS TESTING METHOD

Hardness testing of a product is to check the resistance of the product and to determine the depth of penetration of the indenter under a known load.

$$\text{FORMULA} = \frac{\text{HARDNESS NUMBER}}{\text{LOAD APPLIED}}$$

STEP 6: MACHINING:

After the process of heat treatment, the product is taken to the machining section. Here the extra dimensions are removed. There is a separate machining department which is "INNO MAKING SOLUTIONS" also a branch of "INNOFORGE".

STEP 7: INSPECTION AND DISPATCH:

As according to TDC the products are checked thoroughly by inspecting all the products and after inspection the products are all dispatched to the customer with full satisfaction. The products are well designed and forged.

CONCLUSION:

For us this internship training provided a knowledge about the process that is taking place in the forging section. It provided the industrial experience and enhances the practical knowledge of the forging of the steels.



Innoforge Pvt. Ltd

Forging the future

Date: 14/07/2023

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Ms. GRACY.S**, Reg No. **C21UG152COM033**, Student of "B.Com - Final year from **St. JOSEPH'S COLLEGE OF ARTS & SCIENCE FOR WOMEN**" had undergone her internship Training in our organization from **26th Jun 2023 to 14th July 2023**.

During her internship, she has demonstrated her skills with self-motivation to learn new skills.

We wish her all the best for her upcoming future.

For Innoforge Pvt Ltd,

A.M.U.
Authorized Signatory

