

HRISHIKESH KHARAT

*Diploma in Metallurgical Engineering |
Production | Quality | Foundry Operations*



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📍 Pune, Maharashtra

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Professional Summary

Diploma in Metallurgical Engineering from Government Polytechnic, Pune with hands-on experience in foundry operations and automotive manufacturing through industrial training at Aakar Foundry Pvt. Ltd. and Tata Motors Passenger Vehicles Ltd. Skilled in quality assurance, production processes, metallurgy fundamentals, inspection techniques, and workplace safety. Seeking an opportunity to contribute to manufacturing and metallurgical operations while enhancing technical expertise.

Experience

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| JTA - Motor Mechanic, Tata Motors Passenger Vehicles Ltd | 12/01/2023 – |
| - Supported automotive manufacturing and assembly operations. | 11/01/2024 |
| - Assisted inspection and quality verification activities. | Pune, India |
| - Followed SOPs, 5S and workplace safety practices. | |
| - Observed production planning and workflow management. | |
| - Worked in a high-volume manufacturing environment. | |
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Intern, Aakar Foundry Private Limited | 18/12/2025 – |
| - Participated in foundry production operations and process monitoring. | 05/06/2026 |
| Performed dimensional and visual inspection of cast components. | Pune, India |
| - Assisted quality control activities and defect identification. | |
| - Followed industrial safety standards and manufacturing procedures. | |
| - Worked closely with production and quality assurance teams. | |

Education

Diploma in Metallurgical Engineering, Government Polytechnic, Pune	08/2024 – 05/2026
3rd Sem : 65.37%, 4th Sem : 64.82%, 5th Sem : 67.51%, 6th Sem : 81.64%	
Aggregate : 70.61%	
Core Technical Subjects (First Class)	

SSC, Eklavya Public School
SSC: 74.40%

HSC, Abhinav Societies English Medium School & Junior College
HSC: 49.23%

Certifications

NTC • NAC • MSCIT • English 30/40 WPM • Marathi 30 WPM • Hindi 30 WPM

Languages

English • Hindi • Marathi

Skills

- Metallurgical Testing
- Heat Treatment
- Production Monitoring
- Computer Literacy (MS Office)
- Communication Skills
- Quality Control And Inspection
- Foundry Operations
- Inventory Management
- Problem Solving

Projects

Material Failure Analysis on SAE 1050 Steel

- Conducted failure analysis of SAE 1050 medium carbon steel to identify the causes of material degradation and component failure.
- Studied the influence of microstructure, mechanical properties, and service conditions on failure behavior.
- Analyzed common failure mechanisms such as wear, fatigue, overload, and fracture.
- Evaluated the relationship between heat treatment, material properties, and performance.
- Proposed preventive measures to improve component reliability and service life.

Core Technical Subjects

- Heat Treatment of Metals and Alloys
- Steel Making
- Powder Metallurgy
- Foundry Engineering
- Modern Foundry Engineering
- Advanced Physical Metallurgy
- Selection of Materials and Failure Analysis
- Metal Joining Processes
- Metal Working Processes