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Visit Report: E&TC Diploma Students' Visit to Upskill Automation, Kolhapur

Date of Visit: 09/03/2025

Location: Upskill Automation, Kolhapur

Objective of the Visit: The main objective of this visit was to provide E&TC diploma students with practical exposure to the field of automation and its application in the industry. The visit aimed to help students understand the latest trends and technologies in automation and to bridge the gap between theoretical knowledge and real-world practices.

About Upskill Automation: Upskill Automation is a leading company in the field of industrial automation, specializing in providing advanced automation solutions for various industries. The company is known for its innovation in automation technologies and offers a range of services, including PLC programming, SCADA systems, robotics, and industrial control systems.

Highlights of the Visit:

1. **Introduction to Automation Concepts:**
The students were introduced to various concepts in industrial automation, including Programmable Logic Controllers (PLC), Supervisory Control and Data Acquisition (SCADA), sensors, actuators, and robotics.
2. **Live Demonstration:**
A live demonstration of automated systems in operation was conducted. Students had the

opportunity to observe how automation systems control machines, monitor processes, and provide real-time data analysis.

3. **PLC Programming:**

The students were given an overview of PLC programming. The instructor explained how PLCs are used to automate processes in industries, such as manufacturing, production lines, and packaging.

4. **Industrial Robotics:**

Students were shown robotic arms used in manufacturing. The functionalities and applications of robotics in different industries were explained in detail, with a focus on precision and efficiency in production processes.

5. **SCADA Systems:**

A detailed demonstration of SCADA systems was provided, where students could see how operators monitor and control industrial processes remotely. The importance of SCADA in large-scale industrial automation was discussed.

6. **Hands-on Experience:**

Students were given the opportunity to work with some of the equipment and tools used in automation. They interacted with different components and learned how they are integrated into automation systems.

Learning Outcomes:

1. **Practical Knowledge:**

The students gained practical insights into how automation systems are designed, implemented, and maintained in industries. This experience enhanced their understanding of theoretical concepts taught in the classroom.

2. **Exposure to Latest Technologies:**

Students were exposed to the latest advancements in automation technologies, including robotics, PLC systems, and SCADA, which will help them stay up-to-date with industry trends.

3. **Career Insights:**

The visit provided students with an understanding of potential career opportunities in the field of automation and the skills required to excel in this industry.

Feedback from Students: The students expressed their satisfaction with the visit, stating that it was an enriching experience. Many of them appreciated the hands-on experience and the opportunity to see automation in action. They felt more motivated to pursue careers in the field of automation and related technologies.

Conclusion: The visit to Upskill Automation in Kolhapur was a highly informative and valuable experience for the E&TC diploma students. It successfully achieved its objective of enhancing the students' understanding of automation technologies and their real-world applications. This visit has inspired students to explore further learning and development in the field of automation.

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