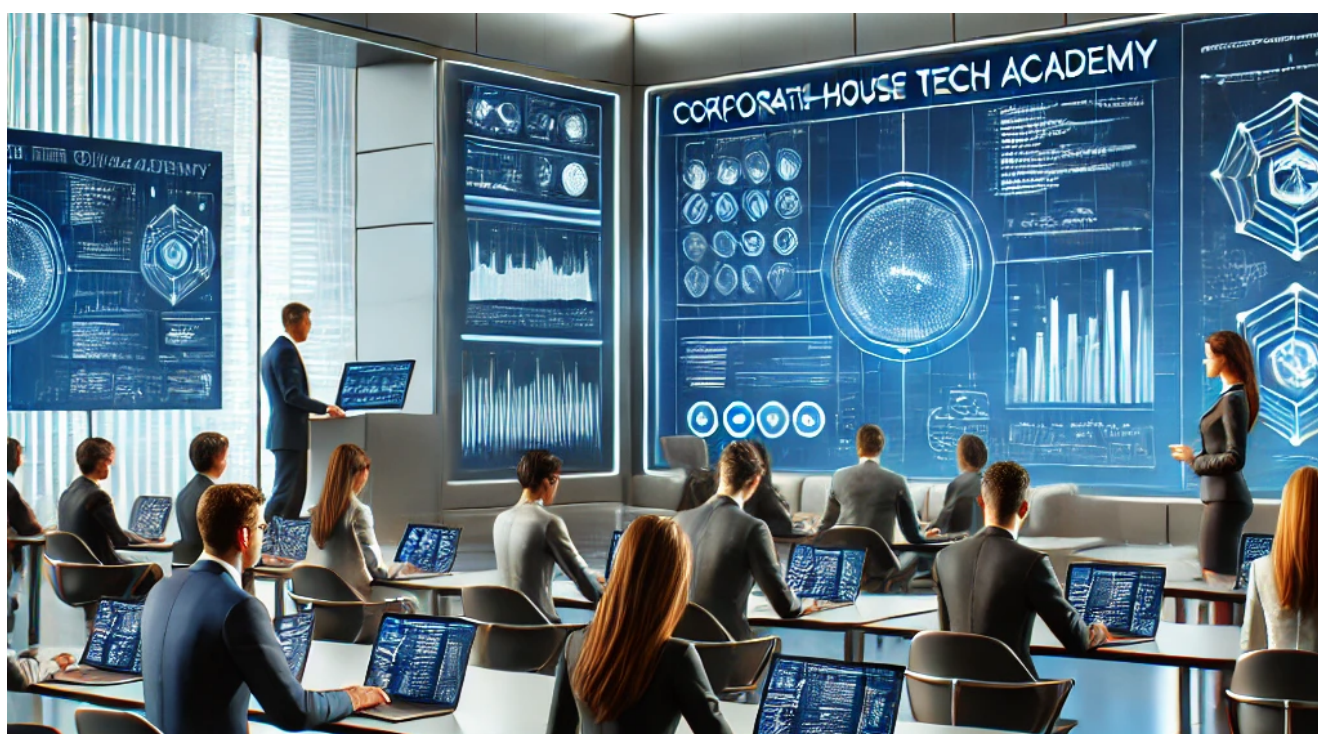




BUILDING AN IN-HOUSE TECH ACADEMY: A STRATEGIC RESPONSE TO THE TALENT SHORTAGE



Introduction

In today's rapidly evolving technological landscape, organisations face a pressing challenge: the shortage of skilled talent, particularly in critical areas such as cybersecurity, data management, and digital transformation. As companies strive to remain competitive and drive innovation, the demand for specialised skills continues to outpace supply. Traditional hiring practices and reliance on external training programs are no longer sufficient to bridge this gap. To address this challenge, more organisations should explore an innovative solution: building in-house tech academies. These academies offer a strategic approach to cultivating the exact skills needed within an organisation, ensuring a steady pipeline of talent, and driving long-term success.



Tailored Training for Organisational Needs

One of the primary advantages of an in-house tech academy is the ability to deliver training that is precisely aligned with the organisation's unique needs. Unlike generic educational programs that provide broad-based knowledge, an in-house academy can focus on the specific skills and competencies required to meet the organisation's goals. Whether it's developing expertise in proprietary technologies, mastering industry-specific regulations, or honing skills in cutting-edge fields like artificial intelligence and machine learning, an in-house academy ensures that employees are trained in the exact areas that matter most.

This tailored approach not only accelerates the learning process but also enhances the relevance of the training. Employees can immediately apply their newly acquired skills to real-world challenges within the organisation, driving innovation and efficiency. Moreover, by focusing on the organisation's context and priorities, the academy can foster a deeper understanding of the company's culture, values, and strategic objectives, aligning employees' efforts with the broader mission.

Addressing Industry-Wide Talent Shortages

The shortage of skilled talent in key areas such as cybersecurity and data management is a well-documented challenge that many industries face. Cybersecurity threats are growing in both frequency and sophistication, while the demand for data-driven decision-making continues to rise. Unfortunately, the talent pool for these critical roles has not kept pace, leading to fierce competition for qualified professionals.

An in-house tech academy offers a proactive solution to this problem. By cultivating talent from within, organisations can reduce their reliance on the external job market, where competition for top talent is intense. Instead of vying for the same limited pool of candidates, companies can invest in developing their own cybersecurity experts, data analysts, and other critical roles. This approach not only helps to buffer against industry-wide talent shortages but also ensures that the organisation's specific needs are met by professionals who are intimately familiar with its operations and challenges.



Enhancing Employee Retention and Engagement

In today's competitive job market, offering opportunities for professional growth and development is a key factor in attracting and retaining top talent. Employees are increasingly seeking employers who are committed to their long-term success and are willing to invest in their skills and career advancement. An in-house tech academy can play a pivotal role in enhancing employee retention by providing continuous learning and upskilling opportunities.

By offering structured and ongoing training programs, organisations demonstrate their commitment to employees' professional growth. This not only boosts morale but also fosters a sense of loyalty and engagement. Employees who feel that their employer is invested in their development are more likely to stay with the organisation, reducing turnover and the associated costs of recruiting and training new hires.

Moreover, an in-house academy positions the organisation as a progressive and forward-thinking employer, enhancing its reputation in the talent market. This can be a powerful differentiator when competing for top talent, particularly among younger workers who prioritise continuous learning and skill development.

Creating a Sustainable Talent Pipeline

One of the most significant benefits of an in-house tech academy is its ability to create a sustainable talent pipeline. By systematically training employees in the skills that are most critical to the organisation's success, the academy ensures a steady flow of qualified professionals who are ready to step into key roles as they become available. This proactive approach minimises the risk of backfill problems and reduces the disruptions that can occur when critical positions are left vacant.

In addition to addressing immediate talent needs, an in-house academy also supports long-term workforce planning. By identifying emerging trends and anticipating future skills requirements, the academy can adjust its curriculum and training programs to ensure that the organisation is always prepared for what's next. This strategic approach to talent development



helps to future-proof the organisation, ensuring that it remains agile and adaptable in the face of changing industry demands.

Establishing an In-House Tech Academy: Bridging the Gap Between Academic Learning and Industry Expertise

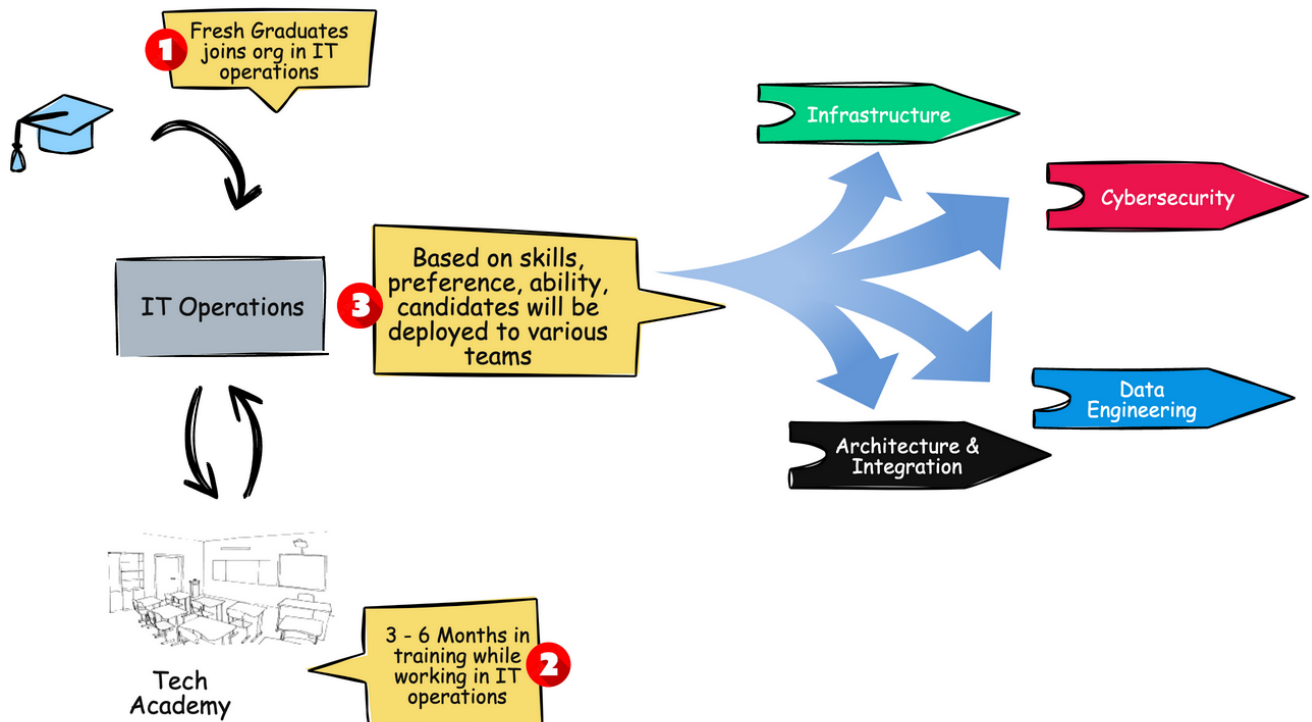
Setting up an in-house tech academy is a strategic move for any organisation seeking to bridge the gap between academic education and the practical skills required in the industry. This academy should not only equip participants with the technical expertise needed for today's dynamic work environment but also embeds them into the organisation's culture and processes. Here's a detailed approach to establishing an effective tech academy.

Program Duration and Structure

The proposed academy should be designed as an intensive six-month program that combines both classroom-based learning and hands-on experience. During this period, participants will cycle through various teams and projects, allowing them to apply the skills they've acquired in real-world scenarios within the organisation. This hybrid approach ensures that learning is not just theoretical but also contextualised in the organisation's specific needs.

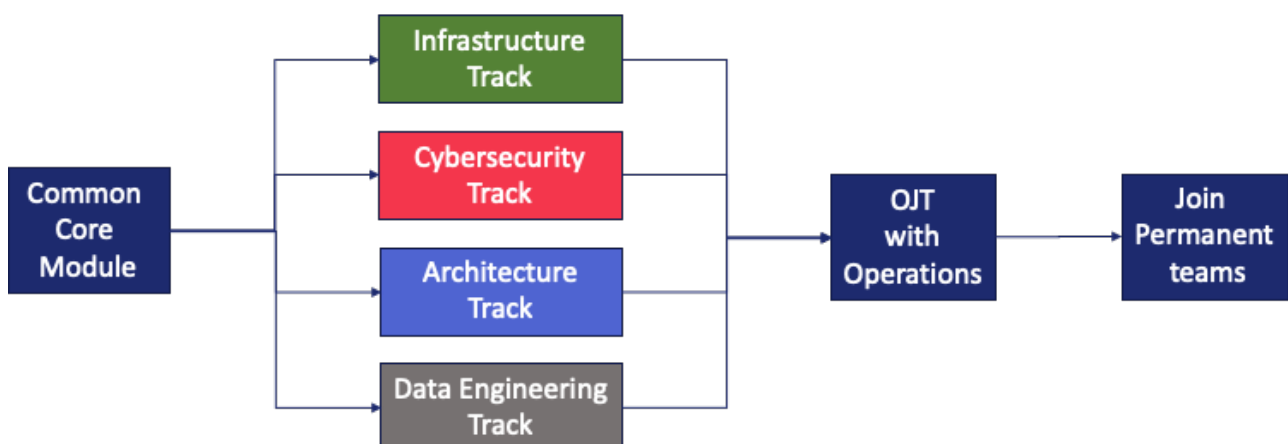
Over the course of six months, participants will receive both classroom-based and hands-on training. They will be exposed to various teams and projects, allowing them to gain practical experience and develop deeper skill sets to better integrate into and support the tech and data foundation teams.

One potential way to get started is to bring in fresh graduates into the organization's IT operations where they are exposed to the IT environment of the whole organisation. An illustration of how this would flow is shown below:



Curriculum Design

The curriculum is the backbone of the academy and must be carefully structured to cover a broad spectrum of critical topics. The curriculum should be designed to progress from foundational knowledge to more advanced concepts, ensuring a comprehensive learning experience. Below is a sample structure for the academy curriculum path:





The program should start with a common core, not unlike many universities or institute of higher learning (IHLs). This focus on the common core would give everyone a good foundation on IT as a whole and enhance team integration in the future.

A sample of what the core module should cover is as follows:

- Introduction to Infrastructure and cybersecurity principles and best practices.
- Overview of organisation's architecture, infrastructure and cybersecurity components.
- Overview of networking principles and protocols.
- Basics of server and storage technologies.
- Understanding the role of IT architects and their significance in organisational success.
- Overview of architectural frameworks and methodologies.
- Alignment of IT architecture with business goals.
- Understanding the domain threat landscape and common industry issues.

After the completion of the core modules, the participants will be channelled to various specialized training based on a few factors like their strengths, prior experience, urgency of vacancies in organisation, affinity to certain fields of technology, and even the participant's own career aspirations.

Hands-On Experience

To complement the classroom training, participants will be integrated into various teams across the organisation. They will work on real projects, allowing them to apply their knowledge in practical scenarios. This exposure to different teams—such as infrastructure, development, cybersecurity, and data analytics—ensures a well-rounded experience, making participants versatile and adaptable.

Mentorship and Evaluation

An essential component of the academy is mentorship. Pairing participants with experienced mentors from within the organisation helps reinforce learning, provides guidance, and ensures that participants are on the right track. Regular evaluations and feedback sessions will be conducted to monitor progress, identify areas for improvement, and adjust the training as needed.



Final Project and Certification

Towards the end of the program, participants will be required to complete a capstone project that synthesises all the skills and knowledge they have acquired. This project will typically involve solving a real business problem or contributing to a strategic initiative within the organisation. Successful completion of the program will culminate in a certification that formally recognizes the participants' achievements.

Online learning Management System

As part of the academy, there should also be an online Learning Management system (LMS) that would allow participants to revise the lessons from the programme.

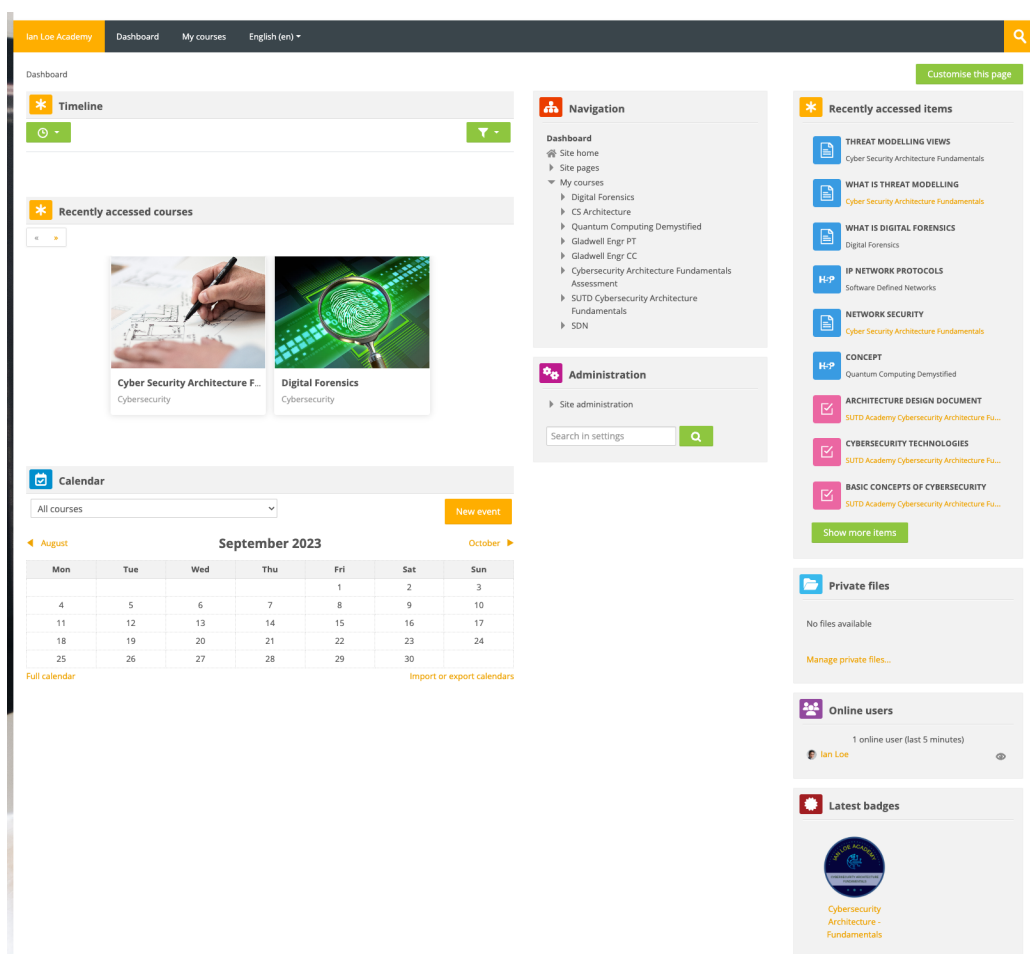


Figure 1: Learning Management System



The LMS is not meant to replace the formal training but is a good place for revision and for participants to keep up to date on changes in newer versions of the training programme. The LMS would also be used to conduct assessments and keep a record of training attended.

Continuous Improvement and Iteration

Finally, the academy should not remain static. Regular reviews of the curriculum and training methods are essential to ensure that the academy remains aligned with the latest industry trends and organisational needs. Feedback from participants, mentors, and stakeholders should be used to continually refine the program, making it more effective with each iteration.

Conclusion

As the shortage of skilled talent continues to challenge organisations across industries, building an in-house tech academy emerges as a strategic solution with far-reaching benefits. By offering tailored training, addressing industry-wide talent shortages, enhancing employee retention, and creating a sustainable talent pipeline, an in-house academy empowers organisations to drive change, innovate, and thrive in a competitive landscape. In an era where the right skills can make all the difference, investing in the development of in-house talent is not just a smart move—it's a necessity.