

STORY 9

Addressing Jordan's sustainability and growth ambitions with BIM skills

Growing populations, urban expansion, and increasing focus on green building practices, means the ability to deliver smarter, more sustainable projects is essential.

In Jordan, and across the wider region, there's demand for professionals who can deliver projects that are not only efficient but sustainable. From hospitals to housing developments and smart cities, complex projects increasingly require digital workflows that support energy efficiency, resource optimisation, and low-carbon outcomes.

Jordan-based Archizone Academy, an Autodesk Authorized Training Center (ATC®), is helping meet these needs by equipping learners with BIM skills which help them stay relevant in a changing market. Training programmes are designed to enable learners to coordinate designs, reduce errors, and improve project sustainability, while also advancing their careers. ATC®

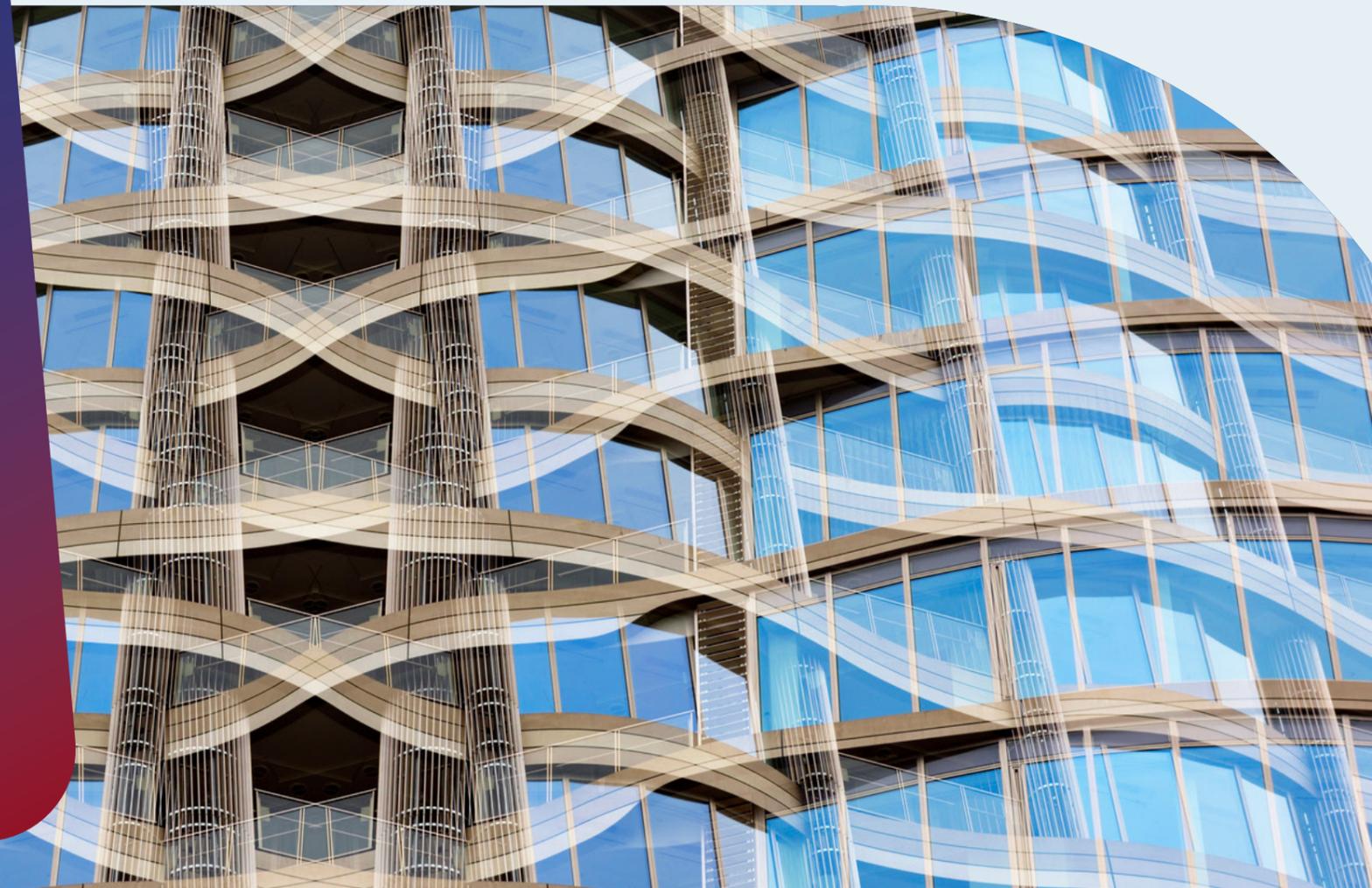
One learner, transitioning from AutoCAD to Revit, reflected on the impact of training: *"The Revit training at Archizone significantly enhanced my skills in 3D modelling, coordination, and project documentation. It allowed me to work more efficiently with my team, reduce errors during the design and construction phases, and contribute to completing projects on time. Overall, the training has made a noticeable difference in the quality and speed of my work."*

Enabling achievement of sustainability goals

Jordan's national energy efficiency targets, low-carbon initiatives, and donor and funder requirements for green building standards mean that projects increasingly rely on BIM workflows to optimise performance.

Clients and funders are increasingly valuing sustainability outcomes in their project requirements. There is a growing preference for energy-efficient designs, green building certifications, and life-cycle carbon assessment. Sustainability considerations are often linked to financing, operational cost reduction, and corporate social responsibility goals.

Sustainability-focused concepts are integrated within training programs. Learners practice using BIM workflows to evaluate building performance, optimise design solutions, and support sustainability goals in real projects. Employer workshops and pilot exercises demonstrate how BIM can contribute to measurable sustainability benefits, such as improved energy efficiency and resource management.



Addressing digital skills gaps

With an estimated there are around 187,000 registered engineers in Jordan, professionals across the are looking to combine career growth with contributions to sustainable, high-performance projects.

However, skills and knowledge gaps linger – most notably practical BIM competencies such as federation, data handover, 4D/5D planning and digital collaboration. Employers are looking for advanced scheduling and sustainability analysis skills.

Training is not just about acquiring software proficiency, it is about enabling careers, allowing professionals to take on more responsibility and contribute to increasingly complex projects. Programmes are designed to ensure learners can meet current project needs as well as building capabilities that will define the next decade of AECO in Jordan.

Mohannad Zahran from Archizone said: *“Our training programmes are designed not only to teach software but also to transform the way professionals think and work. They have an impact on careers.”*

“A BIM technician who completed the Revit and BIM Management track progressed to a BIM coordinator role within nine months, while a contractor team applied 4D sequencing to reduce rework and accelerate project milestones.”

Archizone integrates practical training with real-world experience to strengthen professional skills. Its collaborations include agreements with Al al-Bayt University and the Applied Science University, training programs for the Ministry of Public Works and Housing, and courses delivered through international organisations such as USAID.

Learners experience practical, project-based applications of BIM, preparing them to contribute immediately to live projects such as the Tafila Hospital Project in Jordan, a 500-bed healthcare facility serving the southern region.

Mohannad said: *“Our learners applied their BIM skills in architectural, structural, and MEP coordination, clash detection, and quantity take-offs. This helped improve collaboration, accuracy, and efficiency throughout the project.”*

Always looking forward

Although not yet mandated, the use of BIM in Jordan is increasing – adoption is largely voluntary and project-driven. Some large consultants or government-funded projects request BIM deliverables, but currently there isn't a national decree requiring BIM for all public projects.

Given the fast-moving nature of the sector in Jordan and beyond, training needs to anticipate and prepare for emerging industry trends and employer needs – for those working across the AECO ecosystem (architects, junior designers, site engineers and coordinators, BIM technicians, BIM managers, contractors' coordination staff).

An industry advisory board of local professionals provides guidance to align training with real project needs. Monitoring of technology trends and feedback loops also contribute to curriculum and course content development.

As Jordan continues to grow its infrastructure, housing, and smart city projects, it needs professionals skilled in BIM, committed to sustainability and advancing their careers. Professionals who have the skills to deliver smarter, greener, and more efficient buildings.



Prediction: essential skills for AECO professionals in Jordan

- **Advanced BIM modelling** for efficient project design, coordination, and management.
- **4D/5D planning and cost management** to analyse project schedules, costs, detect clashes, and simulate construction sequencing.
- **Parametric and generative design** for creating flexible and sustainable design solutions.
- **Energy and sustainability analysis** to assess building performance and reduce resource consumption.
- **Digital collaboration and cloud-based project management** to facilitate teamwork across multidisciplinary teams.



Archizone Academy is an Autodesk Learning Partner is based in Amman, Jordan. Established in 2012, it develops and delivers training programmes to professionals across the AECO ecosystem. It integrates practical training with real-world experience to strengthen professional skills, and works collaboratively with agreements with universities as well as government and international organisations.