Off-site Construction Education:
results of a survey of prefabrication in design and construction academics

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Off-site Construction Survey Responses by Discipline

Architecture (53 institutions)
Construction Management (29 institutions)
Industry (313 responses)

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Off-site Construction is More Common in Industry

**Industry**
Have you used off-site construction in the past 12 months?

- 7% No
- 93% Yes

**Education**
How often is off-site construction taught?

- Architecture (120)
  - 66% Never or Sporadically
  - 34% Every Year or More

- Construction (60)
  - 60%
  - 40%
How do you teach Off-site Construction?

**Architecture**
- 58% Design Studios
- 51% Lecture Courses
- 50% Design/Build
- 33% Technical Courses
- 30% Guest Lectures

**Construction Management**
- 51% Lecture Courses
- 30% Guest Lectures
- 30% Competitions
- 33% Technical Courses
- 32% Internships
Most Frequently Taught Off-site Construction Topics

- Materials + products
- Design + engineering
- Project management
- Sustainability + life cycle
- Factory construction
- Commercial construction
- Residential construction
- Installation
- Accelerated schedule
- Automation
- Transportation
- Regulations
- Lean manufacturing
- Highrise construction
- Labor skills / training
- Maintenance

[Bar chart showing percentage of teaching frequency]
Most Addressed Off-site Construction Typologies

- Single Family Housing
- Multi-Family Housing
- Commercial
- Education
- Healthcare
- Industrial
- Hospitality
- Data center

0 10 20 30 40 50 60%

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Most Addressed Off-site Construction Product Types

- Prefabricated exterior walls
- Curtain wall assemblies
- Precast concrete
- HVAC, plumbing, electrical
- Steel Assemblies
- Cross-laminated timber
- Permanent Building Modules
- Service pods (bathroom/utility)
- Prefabricated interior walls
- Headwall assemblies
- Equipment skids

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Off-site Construction Research in Academia

- New products
- Design optimization
- BIM integration
- Testing materials + systems
- Simulation studies
- Project delivery process
- Training + continuing ed
- Lean manufacturing
- Onsite efficiencies
- Supply chain integration
- Regulatory accommodation
- Market analysis

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