

*OmniClass*TM

A Strategy for Classifying the Built Environment

Table 33 - Disciplines

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Definition

Disciplines are the practice areas and specialties of the actors (participants) that carry out the processes and procedures that occur during the life cycle of a construction entity.

Discussion

Disciplines are the practice areas and specialties of the participants who are performing services during the life cycle of a construction entity, considered without regard to the actual job functions of individuals or teams, which is covered by Table 34 – Organizational Roles. Disciplines from Table 33 can be combined with entries from Table 34 - Organizational Roles to provide a full classification such as an Electrical Subcontracting (discipline) Supervisor (organizational role).

Examples

Architecture, Interior Design, Mechanical Engineering, General Contracting, Electrical Subcontracting, Legal, Finance, Real Estate Sales

Table Uses

Specifying and estimating construction and maintenance costs for building elements, identifying workers and estimating associated labor costs needed in the performance of specified procedures, project management and planning.

Table Users

Cost estimators, facility managers, specifiers, designers, contractors, project managers.

Legacy Documents

- AIA Information Classification System, Part 2, Hierarchical Listing, May 1, 1989
- ISO 12006-2, Table 4.15 Construction agents (by discipline)
- *Uniclass* Table B - Subject Disciplines

Number	Title
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Numbers & Titles

33-11 00 00 Planning

33-11 11 00 Regional Planning

33-11 21 00 Development Planning

33-11 31 00 Rural Planning

33-11 41 00 Urban Planning

33-11 44 00 Transportation Planning

33-11 51 00 Environmental Planning

33-11 61 00 Facility Conservation Planning

33-11 61 21 Historic Building Conservation Planning

33-11 61 31 Ancient Monument Conservation Planning

33-11 61 41 Archaeological Area Conservation Planning

33-11 99 00 Other Planning

33-11 99 11 Master Planning

33-11 99 14 Permitting

33-11 99 17 Risk Assessment

33-21 00 00 Design

33-21 11 00 Architecture

33-21 11 11 Residential Architecture

33-21 11 21 Commercial Architecture

33-21 11 24 Institutional Architecture

33-21 11 27 Industrial Architecture

33-21 19 00 Drafting

33-21 21 00 Landscape Architecture

33-21 23 00 Interior Design

33-21 25 00 Specifying

33-21 27 00 Graphic Design

33-21 27 11 Signage Graphic Design

33-21 31 00 Engineering

33-21 31 11 Civil Engineering

33-21 31 11 11 Geotechnical Engineering

33-21 31 14 Structural Engineering

Number	Title
33-21 31 14 11	Foundation Engineering
33-21 31 14 21	High Rise Engineering
33-21 31 14 31	Long-span Structure Engineering
33-21 31 14 41	Tensile Structure Engineering
33-21 31 14 51	Pneumatic Structure Engineering
33-21 31 14 54	Hydraulic Structure Engineering
33-21 31 17	Mechanical Engineering
33-21 31 17 11	Plumbing Engineering
33-21 31 17 21	Fire Protection Engineering
33-21 31 17 31	Heating Ventilation and Air Conditioning Engineering
33-21 31 17 33	Refrigeration Engineering
33-21 31 17 34	Energy Monitoring and Controls Engineering
33-21 31 17 37	Hydrological Engineering
33-21 31 21	Electrical Engineering
33-21 31 21 11	High Voltage Electrical Engineering
33-21 31 21 21	Medium Voltage Electrical Engineering
33-21 31 21 31	Low Voltage Electrical Engineering
33-21 31 23	Communications Engineering
33-21 31 23 11	Computer Network Engineering
33-21 31 23 14	Alarm and Detection Engineering
33-21 31 23 21	Audiovisual Engineering
33-21 31 24	Process Engineering
33-21 31 24 11	Piping Engineering
33-21 31 24 21	Wind Engineering
33-21 31 24 31	Co-Generation Engineering
33-21 31 24 41	Nuclear Engineering
33-21 31 24 51	Sanitary Engineering (Includes: Waste Management Engineering)
33-21 31 27	Military Engineering
33-21 31 99	Other Engineering
33-21 31 99 11	Acoustical/Emanations Shielding Engineering
33-21 31 99 14	Antiterrorism/Physical Security Engineering
33-21 31 99 17	Value Engineering
33-21 99 00	Other Design
33-21 99 11	Fountain Design
33-21 99 14	Finish Hardware Design
33-21 99 15	Extraterrestrial Design Specialist
33-21 99 22	Health Services Design Specialist
33-21 99 22 11	Hospital Design Specialist
33-21 99 22 21	Nursing Home Design Specialist
33-21 99 24	Infrastructure Design Specialist
33-21 99 25	Irrigation Design Specialist
33-21 99 26	Laboratory Design Specialist
33-21 99 28	Lighting Design Specialist
33-21 99 29	Marina Design Specialist
33-21 99 31	Model Making Specialist
33-21 99 39	Solar Design Specialist
33-21 99 45	Transportation Design Specialist
33-21 99 45 11	Air Transportation Design Specialist
33-21 99 45 21	Roadway Transportation Design Specialist
33-21 99 45 31	Marine Transportation Design Specialist
33-21 99 45 41	Vertical Transportation Design Specialist
33-21 99 45 51	Parking/Traffic Specialist Design Specialist

Number	Title
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33-25 00 00 Project Management

33-25 11 00 Cost Estimation

33-25 14 00 Proposal Preparation

33-25 17 00 Client Briefing

33-25 21 00 Scheduling

33-25 31 00 Contract Administration

33-25 41 00 Procurement

33-25 41 11 Manufacturing

33-25 41 11 11 Building Product Manufacturing

33-25 41 11 14 Process Manufacturing

33-25 41 11 17 Construction Equipment Manufacturing

33-25 41 14 Construction Product Sales

33-25 41 17 Construction Product Marketing

33-25 41 21 Construction Product Purchasing (Synonym: Buying)

33-25 51 00 Quality Assurance

33-25 54 00 Quality Control

33-31 00 00 Surveying

33-31 11 00 Building Surveying

33-31 21 00 Site Surveying (Synonym: Land Surveying)

33-31 31 00 GIS (Geographical Information System) Engineering

33-41 00 00 Construction

33-41 11 00 Contracting

33-41 11 11 General Contracting

33-41 11 14 Subcontracting

33-41 11 14 11 Masonry

33-41 11 14 14 Carpentry

33-41 11 14 17 Iron Working

33-41 11 14 21 Plumbing Subcontracting

33-41 11 14 24 Fire Protection Subcontracting

33-41 11 14 27 Heating Ventilation and Air Conditioning Subcontracting

33-41 11 14 28 Refrigeration Subcontracting

33-41 11 14 37 Electrical Subcontracting

33-41 11 14 51 Energy Monitoring and Controls Subcontracting

33-41 11 14 54 Hydrological Subcontracting

33-41 11 14 61 Painting

33-41 11 14 64 Tiling

33-41 11 14 66 Plaster Subcontracting

Number	Title
33-41 11 14 69	Gypsum Board Subcontracting (Synonym: Drywall Subcontracting, Gypsum Wallboard Subcontracting)
33-41 14 00 Construction Management	
33-55 00 00 Facility Use Disciplines	
33-55 14 00 Real Estate	
33-55 14 11	Real Estate Sales
33-55 14 14	Property Appraising
33-55 14 17	Leasing
33-55 21 00 Owner	
33-55 24 00 Facility Operations	
33-55 24 11	Facility Space Planning
33-55 24 14	Facility Management
33-55 24 17	Facility Maintenance
33-55 24 21	Facility Services
33-55 24 21 11	Plumbing Operation and Maintenance
33-55 24 21 14	Fire Protection Operation and Maintenance
33-55 24 21 17	Heating Ventilation and Air Conditioning Operation and Maintenance
33-55 24 21 21	Refrigeration Operation and Maintenance
33-55 24 21 24	Energy Monitoring and Controls Operation and Maintenance
33-55 24 21 27	Hydrological Operation and Maintenance
33-55 24 21 31	Lightning Protection Operation and Maintenance
33-55 24 21 34	Life Safety Operation and Maintenance
33-55 24 21 37	Radiation Protection Operation and Maintenance
33-55 24 21 41	Moisture Protection Operation and Maintenance
33-55 24 21 44	Indoor Air Quality Evaluation
33-55 24 21 47	Communications Operation and Maintenance
33-55 24 21 47 11	Telecommunications Operation and Maintenance
33-55 24 21 47 14	Information Technology Operation and Maintenance
33-55 24 21 51	Facility Shielding Operation and Maintenance
33-55 24 21 51 11	Acoustic Shielding Operation and Maintenance
33-55 36 00 Facility Restoration	
33-55 36 11	Concrete Restoration
33-55 36 21	Masonry Restoration
33-55 36 31	Parking Restoration
33-55 36 41	Historic Restoration
33-81 00 00 Support Disciplines	
33-81 11 00 Legal	
33-81 11 11	Code Specialist
33-81 11 14	Forensic Specialist
33-81 13 00 Environment	
33-81 13 11	Environmental Impact
33-81 13 14	Hazardous Materials Abatement
33-81 13 44	Tree Preservation Specialist
33-81 31 00 Finance	
33-81 31 11	Banking

Number	Title
33-81 31 14	Accounting
33-81 31 17	Insurance
33-81 31 21	Bonding
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33-81 34 00	Human Resources
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33-99 00 00	Other Disciplines
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33-99 11 00	Science
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33-99 13 00	Art
33-99 13 11	Photography
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33-99 41 00	Security
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33-99 45 00	Public Relations
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33-99 61 00	Education

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