



YOUR NEXT MISSION IN
**DATA CENTER
CONSTRUCTION**

 www.fusioncell.com

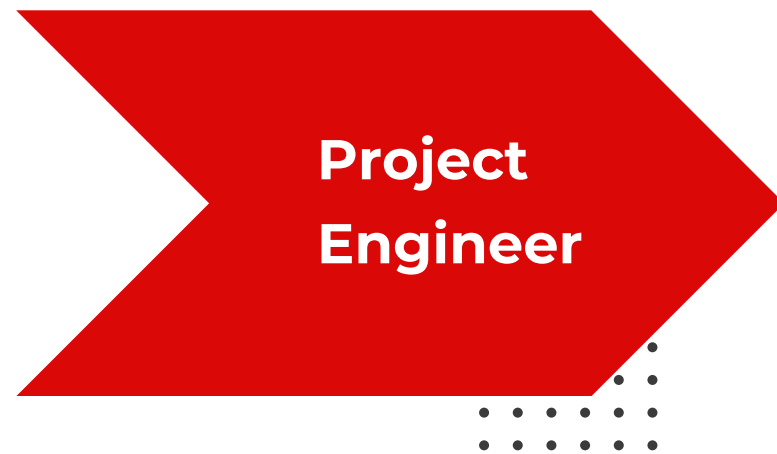


WHY DATA CENTERS?

As you transition from military service, embarking on a career in construction, particularly in the dynamic field of data center construction, offers an exciting opportunity for growth and fulfillment. The data center industry is booming, driven by the ever-increasing demand for digital infrastructure. By joining this sector, you'll be part of a vital industry that plays a critical role in supporting our increasingly digital world. Moreover, the data center construction industry offers abundant opportunities for career progression, with pathways leading from entry-level positions to managerial roles and beyond. Your military experience has equipped you with invaluable skills such as leadership, adaptability, problem-solving, and attention to detail—qualities highly sought after in construction. These translatable skills, coupled with the specialized training and certifications available, position you for success in this field. As you consider new career opportunities, know that you have the potential to make a meaningful impact while forging a rewarding career in data center construction.



Project Manager Career Road Map



This is often one of the initial roles for someone in the project management field, especially for those with an engineering background. Project Engineers are responsible for the technical aspects of a project, including planning, execution, and overseeing specific components of the project. They work under the supervision of more senior project managers and are deeply involved in the day-to-day operations of a project.



After gaining experience as a Project Engineer, the next step is often the Assistant Project Manager role. In this position, individuals take on more responsibilities in managing projects, including budgeting, scheduling, and team coordination. They assist the Project Manager in various aspects of project execution and may lead smaller projects or components of larger projects.



With more experience and proven competence, an individual can advance to a Project Manager position. Project Managers have overall responsibility for the successful planning, execution, monitoring, control, and closure of a project. They are responsible for making key decisions, managing risks, handling client relationships, and ensuring that the project meets its goals in terms of time, budget, and quality.



This role involves overseeing multiple projects or very large and complex projects. Senior Project Managers have extensive experience and a proven track record of successful project delivery. They may also mentor junior staff and have a greater role in strategic planning and decision-making.

Learn more about these opportunities at www.fusioncell.com



Advanced Career Progression in Construction



Program Managers oversee a suite of related projects, ensuring that they align with organizational goals and strategies. They manage multiple project teams and coordinate efforts across these teams to achieve broader objectives.



At this level, the focus shifts to managing a portfolio of projects and programs. Portfolio Managers make decisions about project prioritization, resource allocation, and strategic alignment, ensuring the portfolio's overall health and alignment with the organization's strategic goals.



This is a senior executive role, often involving strategic oversight of an organization's entire project management function. They are responsible for high-level planning, governance, and framework establishment for project management within the organization.



In some organizations, especially larger ones, the highest project management position might be at the executive leadership level, such as a VP of Project Management or a Chief Project Officer. These roles involve strategic leadership and contributing to the overall business strategy from the project management perspective.

Learn more about these opportunities at www.fusioncell.com



OVERVIEW

A Project Engineer in data center construction is responsible for the technical execution of building data centers, focusing on electrical systems, cooling, and networking. They collaborate with project managers and teams to ensure technical specifications and industry standards are met. Key duties include technical documentation, design assistance, construction oversight, and safety compliance. This role requires an engineering background, strong problem-solving skills, and effective teamwork. Holding an engineering degree, the Project Engineer is critical in ensuring technical precision and efficiency in data center construction projects.

RESPONSIBILITIES

- Technical Oversight
- Design Coordination
- Quality Control and Compliance
- Budget and Schedule Management
- Vendor and Contractor Liaison
- Project Scheduling
- Material and Resource Planning
- Cost Estimation

QUALIFICATIONS

- 2+ Years Electrical Experience
- 2+ Years Project Planning Experience
- EIT, FE, CAPM Certification is a plus
- Bachelor's Degree in Construction Management, Business, Engineering
- Valid Drivers License
- Self-motivated with a growth mindset
- Exceptional communication abilities
- Willing to travel 25%

PROJECT ENGINEER

Air Force : 3E series

Marine Corps : 13 Series

Army : 12 Series

Navy : BU, CE, CM, EO, UT, SW, EA



OVERVIEW

An Assistant Project Manager in data center construction supports the overall project management process, focusing on scheduling, budgeting, and coordinating activities. They assist the Senior Project Manager, ensuring project objectives, especially in technical areas like power and cooling systems, are achieved. Key tasks include aiding in planning, tracking progress, and facilitating team communication. Essential skills for this role include organization, attention to detail, and effective teamwork under senior guidance. Typically holding a relevant degree, with aspirations or progress towards project management certifications like CAPM or PMP, an Assistant Project Manager plays a crucial supporting role in the successful delivery of data center projects.

RESPONSIBILITIES

- Project Planning and Design
- Budget and Schedule Management
- Risk Assessment
- Client Communication
- Change Management
- Documentation and Reporting
- Quality Control
- Procurement Support

QUALIFICATIONS

- 3-5 Years Electrical Construction Experience
- 3+ Years Project Engineering Experience
- CCM, CAPM, PMP Certification is a plus
- Bachelor's Degree in Construction Management, Business, Engineering
- Financial Acumen
- Project Management Software
- Exceptional communication abilities
- Willing to travel 25%

ASSISTANT PROJECT MANAGER

Air Force : 3E series

Marine Corps : 13 Series

Army : 12 Series

Navy : BU, CE, CM, EO, UT, SW, EA



OVERVIEW

A Data Center Construction Project Manager specializes in overseeing the development of data centers, from planning and design to execution and completion. This role demands a strong understanding of data center infrastructure, including power, cooling, and networking systems. Key responsibilities involve coordinating with technical teams, managing budgets, and ensuring project deadlines are met. Effective communication and risk management are essential skills, along with a background in engineering or construction management. Relevant experience and certifications like PMP are typically required. This role is pivotal in efficiently delivering complex, high-tech data center projects.

RESPONSIBILITIES

- Multiple Project Leadership
- Strategic Planning
- Stakeholder Management
- Resource Allocation
- Contract Negotiation
- Compliance Monitoring (OSHA, EHS)
- Crisis Mitigation and Management
- Conflict Resolution

QUALIFICATIONS

- 5-10 years' experience in project management
- 5-10 years leading multiple projects
- PMP, PgMP, PMI-ACP Certification is a plus
- Advanced Degree in Construction Management, Business, Engineering
- Financial Acumen
- Project Management Software
- Exceptional communication abilities
- Willing to travel 25%

PROJECT MANAGER

Air Force : 3E series

Marine Corps : 13 Series

Army : 12 Series

Navy : BU, CE, CM, EO, UT, SW, EA



OVERVIEW

A Senior Project Manager in data center construction oversees large-scale projects, focusing on the development and implementation of data center infrastructure. This role requires extensive knowledge of critical systems like power, cooling, and networking. Key responsibilities include leading project teams, managing timelines and budgets, and ensuring technical specifications are met. Effective leadership, strategic planning, and strong communication skills are essential, as is experience in addressing complex construction challenges. Typically holding an engineering degree and advanced project management certifications, such as PMP, a Senior Project Manager is crucial for successfully delivering high-tech, large-scale data center projects.

SENIOR PROJECT MANAGER

- Air Force : 3E series
- Marine Corps : 13 Series
- Army : 12 Series
- Navy : BU, CE, CM, EO, UT, SW, EA

RESPONSIBILITIES

- Multiple Project Leadership
- Strategic Planning
- Stakeholder Management
- Resource Allocation
- Contract Negotiation
- Compliance Monitoring (OSHA, EHS)
- Crisis Mitigation and Management
- Conflict Resolution

QUALIFICATIONS

- 10-15 years' experience in project management
- Proven track record of managing complex and large-scale projects
- PgMP, PfMP, CSM, CSP Certification is a plus
- Bachelor's Degree in Construction Management, Business, Engineering
- Financial Acumen
- Project Management Software
- Exceptional communication abilities
- Willing to travel 25%



OVERVIEW

The MEP Technical Coordinator in data center construction is responsible for overseeing the integration and coordination of mechanical, electrical, and plumbing systems within the project. They ensure that these critical systems are installed correctly, meet technical specifications, and comply with industry standards and safety regulations. With a focus on quality assurance and problem-solving, they work closely with MEP subcontractors and collaborate with the project management team to align MEP work with overall project objectives. This role requires a strong technical background, excellent communication skills, and a keen eye for detail to ensure the seamless functionality of MEP systems in data center environments.

RESPONSIBILITIES

- MEP Systems Coordination
- Technical Oversight
- Quality Assurance
- Critical Thinking & Problem Solving
- Documentation Management
- Compliance Adherence (OSHA, EHS)
- Crisis Mitigation and Management
- Cost Management

QUALIFICATIONS

- 5-7 years experience in construction management, focus on MEP
- Proven track record of managing complex and large-scale projects
- Meticulous attention to detail
- Bachelor's Degree in Mechanical, Electrical, Civil Engineering
- MEP systems design and installation
- Construction Codes & Safety Knowledge
- Exceptional communication abilities
- PMP, LEED AP, CCM, CMFP, ACP Certification is a plus

MEP TECHNICAL COORDINATOR

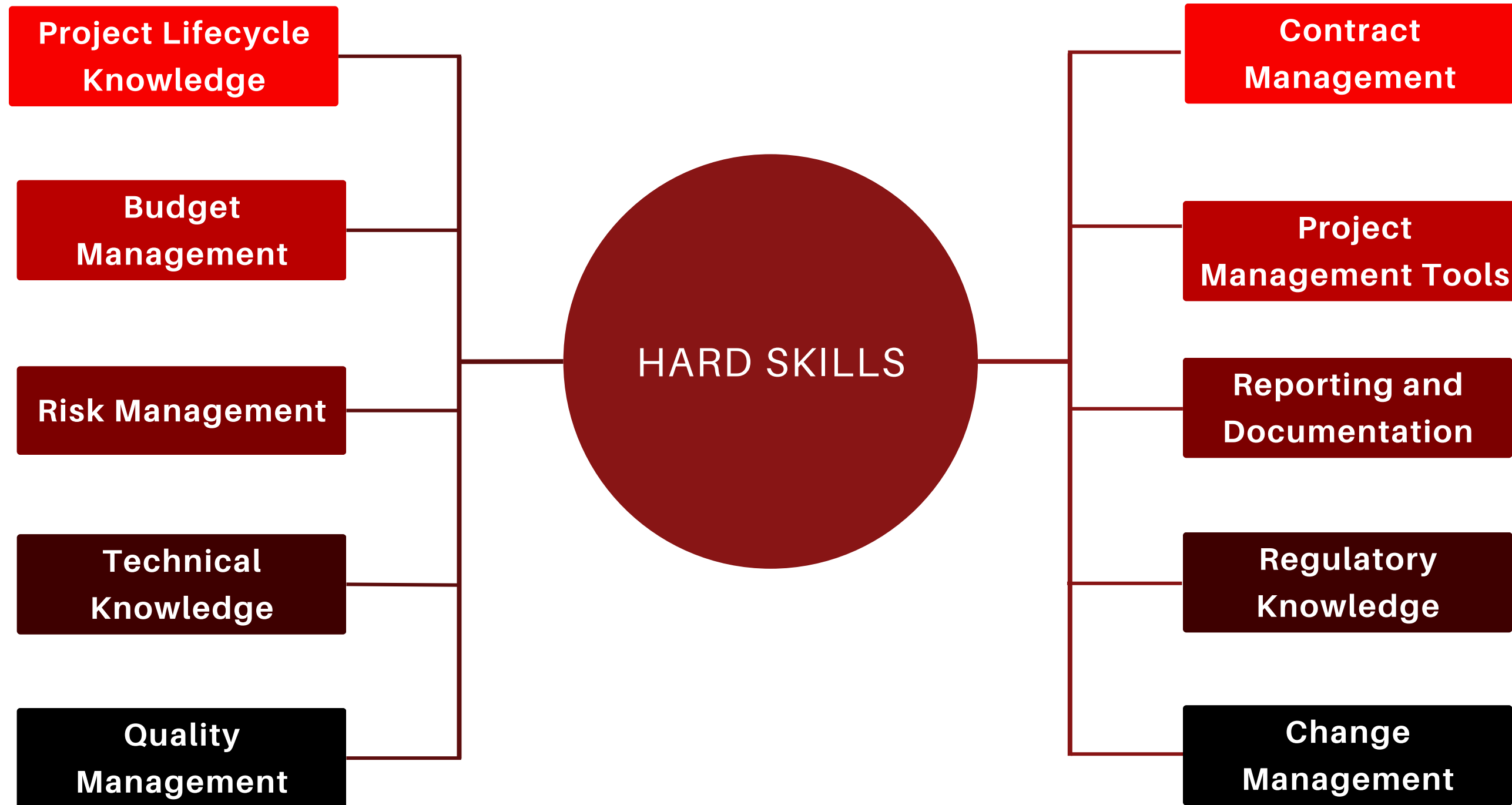
Air Force : 3E series

Marine Corps : 13 Series

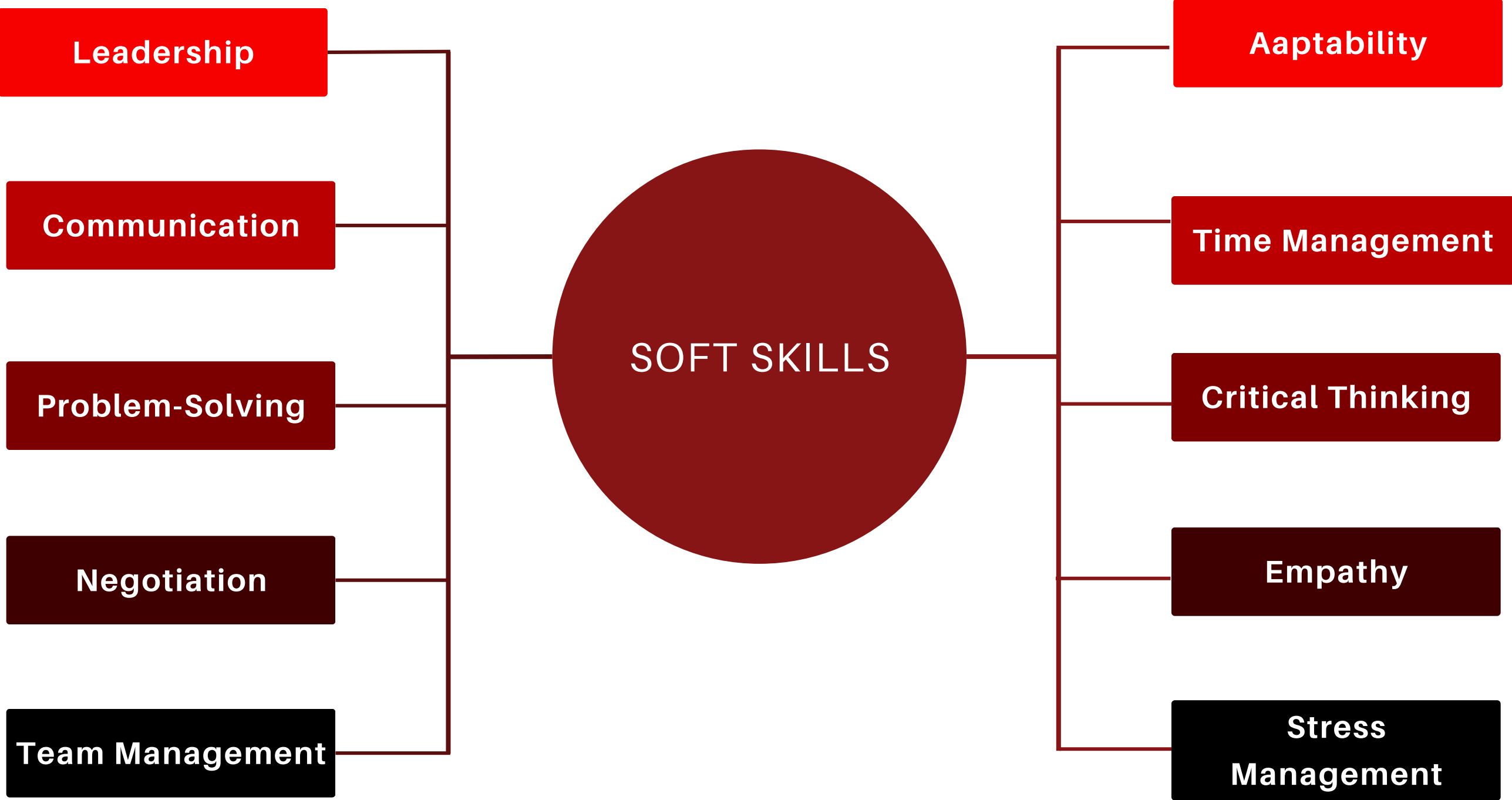
Army : 12 Series

Navy : BU, CE, CM, EO, UT, SW, EA

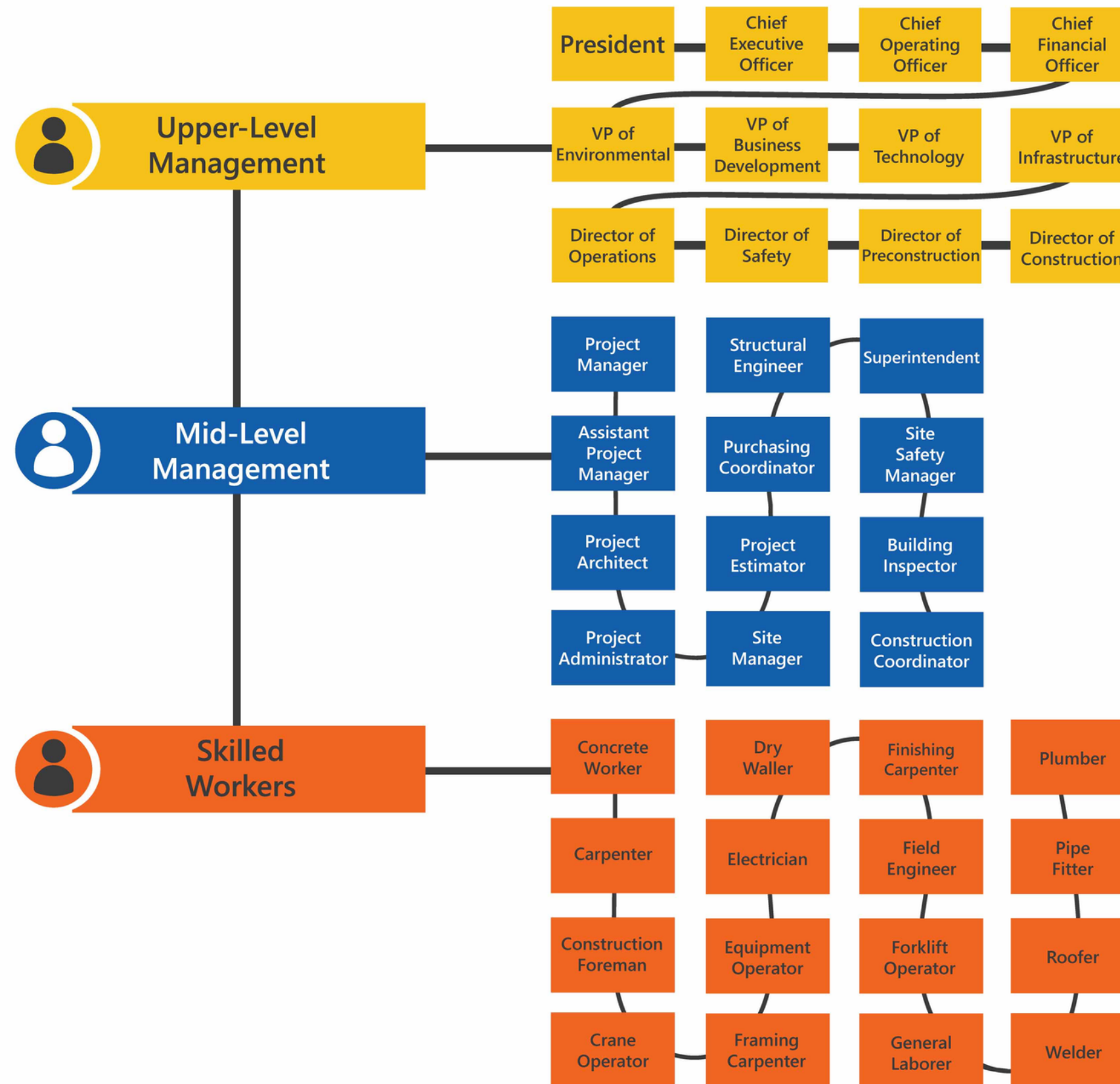
CORE HARD SKILLS FOR PROJECT MANAGERS



CORE SOFT SKILLS FOR PROJECT MANAGERS



Hierarchy Overview in Construction



Certifications in Construction Management



Engineer in Training (EIT) or Fundamentals of Engineering (FE)

Often the first step towards becoming a licensed Professional Engineer (PE).



Certified Associate in Project Management (CAPM)

For those starting in project management, providing fundamental knowledge and understanding.



Project Management Professional (PMP)

Recognized globally, it's ideal for experienced project managers and covers the essentials of project management. The most sought-after certification for project managers across various industries.



Certified Construction Manager (CCM)

Relevant for those in the construction industry, focusing on construction-specific project management.



Program Management Professional (PgMP)

For those managing multiple related projects, focusing on advanced skills in coordinated management.

Certifications in Construction Management



Certified ScrumMaster (CSM) Certified Scrum Professional (CSP)

For those working in Agile and Scrum environments, especially relevant in tech and IT industries.



Portfolio Management Professional (PfMP)

Ideal for senior-level practitioners managing a portfolio of projects and aligning them with organizational strategy.



Six Sigma Green Belt or Black Belt Certification

Focused on process improvement and quality management.



Certified Project Manager (IAPM)

An international certification that covers various project management methodologies.

Certifications for MEP Technical Coordination



LEED Accredited Professional (LEED AP)

Relevant for candidates involved in green building projects, which may include sustainable MEP systems.



Certified Construction Manager (CCM)

Demonstrates expertise in construction management, including MEP coordination.



Certified MEP Professional (CMFP)

Specific to MEP professionals, showcasing expertise in mechanical, electrical, and plumbing systems.



Autodesk Certified Professional (ACP)

Relevant for candidates proficient in using Autodesk software for MEP design and coordination.

Certifications for HVAC Support



ASHRAE Certifications

Offered by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), certifications such as **ASHRAE Certified HVAC Designer (CHD)** for proficiency in HVAC system design principles and **ASHRAE Certified Building Energy Assessment Professional (BEAP)** focused on energy auditing and HVAC optimization.



NATE Certifications

Offered by North American Technician Excellence (NATE), certifications for HVAC technicians. **NATE Certified Technician (NCT)** is a general certification demonstrating proficiency in HVAC installation, maintenance, and service. **NATE HVAC Efficiency Analyst (HEA)** focuses on optimizing HVAC system efficiency, which is crucial in energy-intensive environments like data centers.



Refrigeration Service Engineers Society (RSES) Certifications

RSES offers various certifications relevant to HVAC technicians. RSES Certificate Member (CM): General certification demonstrating competency in HVACR fundamentals. RSES Refrigeration Service Engineer (RSE): Focuses on advanced refrigeration system troubleshooting and repair, relevant for data center HVAC systems.



EPA Section 608 Certification

Required by the Environmental Protection Agency (EPA) for technicians who work with refrigerants, including those used in HVAC systems. It includes four types of certification based on the size and type of equipment being serviced.

Certifications for Electrical Support



Journeyman Electrician License

Many jurisdictions require electricians to obtain a journeyman electrician license to perform electrical work. This license demonstrates that the electrician has completed the necessary training and has the experience to safely and effectively perform electrical installations and repairs.



NEC (National Electrical Code) Certification

The NEC is the standard for electrical installations in the United States. While there is no formal certification for the NEC, obtaining training and staying up-to-date with the latest NEC requirements is essential for electrical workers in data center construction to ensure compliance with electrical codes and regulations.



OSHA 10-Hour or 30-Hour Construction Safety Certification

Offered by the Occupational Safety and Health Administration (OSHA), these certifications provide training on construction safety practices, including electrical safety. OSHA certification ensures that electrical workers understand and adhere to safety regulations on construction sites, including those in data centers.



NFPA 70E Certification

NFPA 70E, also known as the Standard for Electrical Safety in the Workplace, focuses on electrical safety practices, including arc flash and shock hazards. Certification in NFPA 70E demonstrates proficiency in electrical safety procedures, which is crucial in data center construction where high voltage equipment is prevalent.

Certifications for Plumbing Support



Plumbing Journeyman License

Many jurisdictions require plumbers to obtain a journeyman plumber license to perform plumbing work. This license demonstrates that the plumber has completed the necessary training and has the experience to safely and effectively perform plumbing installations and repairs.



Backflow Prevention Certification

Backflow prevention certification ensures that plumbers understand the principles and practices of preventing backflow in plumbing systems. Given the critical nature of water supply in data centers, backflow prevention is essential to maintain water quality and prevent contamination.



OSHA 10-Hour or 30-Hour Construction Safety Certification

Offered by the Occupational Safety and Health Administration (OSHA), these certifications provide training on construction safety practices, including plumbing safety. OSHA certification ensures that plumbers understand and adhere to safety regulations on construction sites, including those in data centers.



Medical Gas Certification

Some data centers, especially those supporting healthcare facilities, may require plumbing systems that incorporate medical gas delivery systems. Certification in medical gas installation and maintenance ensures that plumbers are trained to work with these specialized systems safely and effectively.



AIR FORCE AFSC

Civil Engineering



<p>3E111 Structural Helper</p> <p>Structural Helpers assists in construction, maintenance, and repair of various structures. They provide essential support to skilled workers in tasks related to structural work.</p>	<p>3E151 HVAC/R Specialist</p> <p>HVAC/R Specialists are experts in heating, ventilation, air conditioning, and refrigeration systems. They install, maintain, and repair these systems to ensure climate control in military facilities.</p>	<p>3E171 Engineering Assistant</p> <p>Engineering Assistants support engineering projects by assisting in planning, organization, and implementation. They work closely with engineers to ensure projects run smoothly.</p>	<p>3E191 Electrician</p> <p>Electricians are skilled in electrical systems. They install, maintain, and repair electrical components to ensure safe and reliable electrical power in military facilities.</p>	<p>3E211 Pavement and Construction Equipment Operator</p> <p>Pavement and Construction Equipment Operators handle heavy machinery for construction and maintenance of roads, runways, and other infrastructure. They are experts in heavy equipment operation.</p>
<p>3E231 Heavy Equipment Operator</p> <p>Heavy Equipment Operators specialize in operating and maintaining heavy machinery, such as bulldozers and cranes, to execute engineering and construction tasks.</p>	<p>3E231 Engineering Journeyman</p> <p>Engineering Journeymen have advanced skills in various engineering tasks. They assist in planning and executing projects, often taking on leadership roles.</p>	<p>3E251 Engineering Craftsman</p> <p>Engineering Craftsmen are highly skilled in their field. They lead and supervise teams in executing engineering projects, ensuring precision and efficiency.</p>	<p>3E291 Engineering Superintendent</p> <p>Engineering Superintendents are senior leaders responsible for overseeing engineering operations. They manage personnel, resources, and projects to achieve mission success.</p>	



ARMY MOS CODES

Civil Engineering



<p>12T Technical Engineer</p> <p>Technical Engineers are responsible for assisting in the construction and maintenance of military structures such as bridges, buildings, and fortifications. They survey and collect data necessary for construction projects.</p>	<p>12B Combat Engineer</p> <p>Combat Engineers are responsible for building and repairing military fortifications, roads, bridges, and other structures. They may also be involved in laying or clearing minefields and other combat-related engineering tasks.</p>	<p>12C Bridge Crew Member</p> <p>Bridge Crewmembers construct and repair military bridges, including floating bridges and fixed bridges used by troops and equipment.</p>	<p>12H Construction Engineer Supervisor</p> <p>Construction Engineering Supervisors are responsible for supervising and leading construction teams. They coordinate construction projects and ensure that they are completed efficiently and to standard.</p>	<p>12N Horizontal Construction Engineer</p> <p>Horizontal Construction Engineers operate heavy construction equipment, including bulldozers, graders, and excavators, to build and maintain roads, airstrips, and other horizontal infrastructure.</p>
	<p>12R Interior Electrician</p> <p>Interior Electricians install and maintain electrical systems in military facilities, including lighting, power distribution, and electrical circuits.</p>	<p>12V Concrete & Asphalt Equip Operator</p> <p>Concrete and Asphalt Equipment Operators operate specialized construction equipment for tasks such as pouring concrete and laying asphalt.</p>	<p>12Y Geospatial Engineer</p> <p>Geospatial Engineers collect and analyze geographic data using specialized equipment and software. They create maps and provide geospatial support to military operations.</p>	



MARINE CORPS MOS CODES

Civil Engineering



<p>1316 Metal Worker</p> <p>These Marines work with metal to fabricate and repair various structures and equipment.</p>	<p>1311 Combat Engineer</p> <p>Combat Engineers are responsible for construction, repair, and maintenance of combat-related infrastructure, including bridges, roads, and defensive structures.</p>	<p>1341 Engineer Equipment Mechanic</p> <p>These Marines maintain and repair heavy equipment used in construction and engineering tasks.</p>	<p>1342 Small Craft Mechanic</p> <p>These Marines work on the maintenance and repair of small watercraft used in engineering and combat support.</p>	<p>1343 Assault Amphibious Vehicle (AAV) Repairer/Technician</p> <p>These Marines maintain and repair AAVs, which are used for amphibious assaults and transport.</p>
	<p>1345 Engineer Equipment Operator</p> <p>These Marines operate heavy equipment such as bulldozers, graders, and excavators in construction and engineering projects.</p>	<p>1349 Engineer Equipment Chief</p> <p>Senior enlisted Marines responsible for supervising and managing engineering equipment operations.</p>	<p>12Y Geospatial Engineer</p> <p>Geospatial Engineers collect and analyze geographic data using specialized equipment and software. They create maps and provide geospatial support to military operations.</p>	