4D_Database_Solution: Metadata: Version: "5.0" LastUpdated: "2025-01-16" MaintainedBy: "General Services Administration (GSA), Office of Government-wide Policy" Description: "Comprehensive mapping of U.S. Government Acquisition Regulations, including federal, state, city, and local levels, with detailed workforce roles, education requirements, certifications, and job descriptions. This framework primarily focuses on contracting for goods and services and acknowledges the existence of related frameworks for grants and cooperative agreements. Data is compiled from official government websites, publicly available job descriptions, and professional organization resources." DataSources: - "Federal Acquisition Regulation (FAR) System" - "Defense Federal Acquisition Regulation Supplement (DFARS)" - "Agency-Specific Acquisition Regulations (e.g., EDAR, DEAR)" - "State Procurement Websites (e.g., California DGS, New York OGS)" - "City and County Procurement Websites" - "Professional Organizations (e.g., NCMA, NIGP)" UpdateFrequency: "Annually" ScopeLimitations: "Primarily focused on direct contracting for goods and services. Excludes detailed coverage of grants, cooperative agreements, and international acquisition regulations, although related roles may be mentioned." RelatedFrameworks: - "OPM Government-wide Competency Model" - "Federal Acquisition Institute (FAI) Curricula" Pillars: - PillarID: "1" PillarName: "Federal Acquisition Regulation (FAR)" UnifiedID: "FAR" OriginalNumber: "FAR" SAMName: "Federal Acquisition Regulation" OwnerAgency: "General Services Administration (GSA)" EffectiveDate: "2023-01-01" ExpirationDate: "2026-12-31" Description: "Primary set of rules for government procurement in the United States." BaseLevel: BaseLevelID: "FAR-Base" BaseLevelName: "FAR Parts" Branches: - MegaBranchID: "FAR-Part-1" MegaBranchName: "FAR Part 1 - Federal Acquisition System" UnifiedID: "FAR.1" OriginalNumber: "1" SAMName: "FAR Part 1 - Federal Acquisition System" Description: "General policies and procedures for federal acquisitions." LargeBranches: - LargeBranchID: "FAR-Part-1.1" LargeBranchName: "FAR Subpart 1.1 - Purpose, Authority, Issuance" UnifiedID: "FAR.1.1" OriginalNumber: "1.1" SAMName: "FAR Subpart 1.1 - Purpose, Authority, Issuance" Description: "Establishes the Federal Acquisition Regulation and its purpose." MediumBranches: - MediumBranchID: "FAR-Part-1.1.1" MediumBranchName: "FAR Section 1.101 - Purpose" UnifiedID: "FAR.1.1.1" OriginalNumber: "1.101" SAMName: "FAR Section 1.101 - Purpose" Description: "Explains the purpose of the FAR System." SmallBranches: - SmallBranchID: "FAR-Part-1.1.1.1" SmallBranchName: "FAR Clause 1.101(a)" UnifiedID: "FAR.1.1.1.1" OriginalNumber: "1.101(a)" SAMName: "FAR Clause 1.101(a) - Purpose of the FAR System" Description: "Detailed description of the purpose of the FAR system." Nodes: - NodeID: "FAR-Part-1.1.1.1.1" NodeName: "Purpose of the FAR System" UnifiedID: "FAR.1.1.1.1.1" OriginalNumber: "1.101(a)" SAMName: "Purpose of the FAR System" Description: "Establishes the basis for the Federal Acquisition Regulation system." RegulatoryReference: "FAR 1.101(a)" Roles: - RoleID: "R1" RoleName: "Policy Analyst" LevelOfExpertise: "Senior-Level" Education: - "Master's degree in Public Policy, Law, or related field" Certifications: - "Certified Government Financial Manager (CGFM)" KeySkills: - "Policy Analysis and Development" - "Legislative Research" - "Communication and Presentation Skills" JobDescription: "Advises on regulatory policies, ensuring compliance with legislative mandates and supporting rulemaking processes. Often involved in initial planning phases." TrainingResources: [] # ... (Continue with other FAR Parts, Subparts, Sections, and Clauses) TreeLevels: - LevelID: "1.1" LevelName: "Sectors of Industry" UnifiedID: "FAR.1.1" OriginalNumber: "" SAMName: "Sectors of Industry" Description: "Mapping of FAR regulations to various industry sectors." Branches: - MegaBranchID: "FAR.1.1.1" MegaBranchName: "Construction" UnifiedID: "FAR.1.1.1" OriginalNumber: "" SAMName: "Construction" AssociatedCodes: - NAICS: "23" - SIC: "1500-1799" - NIC: "410" - PSC: "Y1" LargeBranches: - LargeBranchID: "FAR.1.1.1.1" LargeBranchName: "Residential Construction" UnifiedID: "FAR.1.1.1.1" OriginalNumber: "" SAMName: "Residential Construction" AssociatedCodes: - NAICS: "2361" - SIC: "1521-1549" - NIC: "4101" - PSC: "Y1DA" MediumBranches: - MediumBranchID: "FAR.1.1.1.1.1" MediumBranchName: "Single-Family Housing Construction" UnifiedID: "FAR.1.1.1.1.1" OriginalNumber: "" SAMName: "Single-Family Housing Construction" AssociatedCodes: - NAICS: "236115" - SIC: "152101" - NIC: "410101" - PSC: "Y1DA001"
SmallBranches: - SmallBranchID: "FAR.1.1.1.1.1.1" SmallBranchName: "Electrical Installations" UnifiedID: "FAR.1.1.1.1.1.1" OriginalNumber: "" SAMName: "Electrical Installations" AssociatedCodes: - NAICS: "238210" - SIC: "1731" - NIC: "43211" - PSC: "Y1DA001E" Nodes: - NodeID: "FAR.1.1.1.1.1.1.1" NodeName: "Electrical Safety Provisions" UnifiedID: "FAR.1.1.1.1.1.1.1" OriginalNumber: "" SAMName: "Electrical Safety Provisions" Description: "Standards for electrical safety in residential construction." RegulatoryReference: "NEC Standards 2021" Roles: - RoleID: "EE" RoleName: "Electrical Engineer" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Design and install electrical systems for housing projects." - "Ensure compliance with National Electrical Code (NEC)." - "Perform system testing and troubleshooting." Education: - "Bachelor's Degree in Electrical Engineering" - "Master's Degree in Electrical Design (Optional)" Certifications: - "Certified Electrical Technician" - "NEC 2021 Certification"

JobTraining: - "On-the-job training in electrical safety testing." - "Field experience in residential electrical installations." AssociatedCodes: - NAICS: "238210" - SIC: "1731" - NIC: "43211" - PSC: "Y1DA001E" - LargeBranchID: "FAR.1.1.1.2" LargeBranchName: "Commercial Construction" UnifiedID: "FAR.1.1.1.2" OriginalNumber: "" SAMName: "Commercial Construction" AssociatedCodes: - NAICS: "2362" - SIC: "1541-1549" - NIC: "4102" - PSC: "Y1DZ" MediumBranches: - MediumBranchID: "FAR.1.1.1.2.1" MediumBranchName: "Office Building Construction" UnifiedID: "FAR.1.1.1.2.1" OriginalNumber: "" SAMName: "Office Building Construction" AssociatedCodes: - NAICS: "236220" - SIC: "1541" - NIC: "410201" - PSC: "Y1DZ001" SmallBranches: - SmallBranchID: "FAR.1.1.1.2.1.1" SmallBranchName: "HVAC Systems" UnifiedID: "FAR.1.1.1.2.1.1" OriginalNumber: "" SAMName: "HVAC Systems for Commercial Buildings" AssociatedCodes: - NAICS: "238220" - SIC: "1711" - NIC: "43212" - PSC: "Y1DZ001H" Nodes: - NodeID: "FAR.1.1.1.2.1.1.1" NodeName: "HVAC Installation Standards" UnifiedID: "FAR.1.1.1.2.1.1.1" OriginalNumber: "" SAMName: "HVAC Installation Standards" Description: "Standards for installing HVAC systems in commercial buildings." RegulatoryReference: "ASHRAE 90.1" Roles: - RoleID: "HVAC" RoleName: "HVAC Engineer" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Design and install HVAC systems." - "Ensure compliance with ASHRAE standards." Education: - "Bachelor's Degree in Mechanical Engineering" - "Master's Degree in HVAC Design (Optional)" Certifications: - "ASHRAE Certified HVAC Designer" - "LEED AP" JobTraining: - "On-the-job training in HVAC system installation." - "Advanced training in ASHRAE standards." AssociatedCodes: - NAICS: "238220" - SIC: "1711" - NIC: "43212" - PSC: "Y1DZ001H" # Up to 2 additional Large Branches for Construction - LargeBranchID: "FAR.1.1.1.3" LargeBranchName: "Public Infrastructure Construction" UnifiedID: "FAR.1.1.1.3" OriginalNumber: "" SAMName: "Public Infrastructure Construction" AssociatedCodes: - NAICS: "237" - SIC: "1600-1629" - NIC: "4103" - PSC: "Y1F" # ... MediumBranches, SmallBranches, Nodes, and Roles - LargeBranchID: "FAR.1.1.1.4" LargeBranchName: "Industrial Construction" UnifiedID: "FAR.1.1.1.4" OriginalNumber: "" SAMName: "Industrial Construction" AssociatedCodes: - NAICS: "2379" - SIC: "1629" - NIC: "4104" - PSC: "Y1G" # ... MediumBranches, SmallBranches, Nodes, and Roles - MegaBranchID: "FAR.1.1.2" MegaBranchName: "Manufacturing" UnifiedID: "FAR.1.1.2" OriginalNumber: "" SAMName: "Manufacturing" AssociatedCodes: - NAICS: "31-33" - SIC: "2000-3999" - NIC: "250" - PSC: "34" # Add up to 3 additional Large Branches for Manufacturing # ... (Large, Medium, and Small Branches with Nodes for Manufacturing) - MegaBranchID: "FAR.1.1.3" MegaBranchName: "Information Technology" UnifiedID: "FAR.1.1.3" OriginalNumber: "" SAMName: "Information Technology" AssociatedCodes: - NAICS: "54" - SIC: "737" - NIC: "611" - PSC: "D3" # ... (Large, Medium, and Small Branches with Nodes for IT) - MegaBranchID: "FAR.1.1.4" MegaBranchName: "Professional Services" UnifiedID: "FAR.1.1.4" OriginalNumber: "" SAMName: "Professional Services" AssociatedCodes: - NAICS: "54" - SIC: "87" - NIC: "74" - PSC: "R4" # ... (Large, Medium, and Small Branches with Nodes for Professional Services) - LevelID: "1.2" LevelName: "Federal Register" UnifiedID: "FAR.1.2" OriginalNumber: "" SAMName: "Federal Register" Description: "Entries from the Federal Register impacting FAR regulations." Branches: - MegaBranchID: "FAR.1.2.1" MegaBranchName: "FAR Federal Register Updates" UnifiedID: "FAR.1.2.1" OriginalNumber: "" SAMName: "FAR Federal Register Updates" LargeBranches: - LargeBranchID:
"FAR.1.2.1.1" LargeBranchName: "DoD Acquisition Amendments" UnifiedID: "FAR.1.2.1.1" OriginalNumber: "" SAMName: "DoD Acquisition Amendments" MediumBranches: - MediumBranchID: "FAR.1.2.1.1.1" MediumBranchName: "Proposed Rules FY2025" UnifiedID: "FAR.1.2.1.1.1" OriginalNumber: "" SAMName: "Proposed Rules FY2025" SmallBranches: - SmallBranchID: "FAR.1.2.1.1.1.1" SmallBranchName: "New Solicitation Requirements" UnifiedID: "FAR.1.2.1.1.1.1" OriginalNumber: "" SAMName: "New Solicitation Requirements" Nodes: - NodeID: "FAR.1.2.1.1.1.1.1" NodeName: "Mandatory Use of Cloud Services" UnifiedID: "FAR.1.2.1.1.1.1.1" OriginalNumber: "FR-2023-88-SR1-Cloud" SAMName: "Mandatory Cloud Rules" Description: "Requires the mandatory use of cloud services for federal acquisitions." RegulatoryReference: "Federal Register Vol. 88, No. 3" PublicationDate: "2023-01-15" Status: "Proposed" Roles: - RoleID: "ITCS" RoleName: "IT Contract Specialist" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Review and integrate new Federal Register updates." - "Ensure compliance with new cloud service mandates." Education: - "Bachelor's Degree in Information Systems." Certifications: - "Certified IT Procurement Specialist." - "Cloud Procurement Certification." JobTraining: - "Training in new solicitation requirements." AssociatedCodes: - NAICS: "541511" - PSC: "D302" - SIC: "737" - NIC: "611" - LargeBranchID: "FAR.1.2.1.2" LargeBranchName: "Environmental Notices" UnifiedID: "FAR.1.2.1.2" OriginalNumber: "" SAMName: "Environmental Notices" MediumBranches: - MediumBranchID: "FAR.1.2.1.2.1" MediumBranchName: "Public Comments on EPA Regulations" UnifiedID: "FAR.1.2.1.2.1" OriginalNumber: "" SAMName: "Public Comments on EPA Regulations" SmallBranches: - SmallBranchID: "FAR.1.2.1.2.1.1" SmallBranchName: "Public Comment Period for NPRM" UnifiedID: "FAR.1.2.1.2.1.1" OriginalNumber: ""

SAMName: "Public Comment Period for NPRM" Nodes: - NodeID: "FAR.1.2.1.2.1.1.1" NodeName: "Public Comment Period for Proposed Rule on Emissions" UnifiedID: "FAR.1.2.1.2.1.1.1" OriginalNumber: "FR-2023-88-SR1-Emissions" SAMName: "Public Comment Period for Proposed Rule on Emissions" Description: "Open period for public comments on new EPA emissions regulations." RegulatoryReference: "Federal Register Vol. 88, No. 50" PublicationDate: "2023-07-10" Status: "Open" Roles: - RoleID: "ENV" RoleName: "Environmental Analyst" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Prepare and submit public comments on proposed regulations." - "Engage with industry stakeholders to gather input." Education: - "Bachelor's Degree in Environmental Science." Certifications: - "Certified Environmental Compliance Specialist (CECS)." JobTraining: - "Training in public comment submission and stakeholder engagement." AssociatedCodes: - NAICS: "541620" - PSC: "F" - SIC: "4953" - NIC: "951" - LevelID: "1.3" LevelName: "Acquisition Life Cycle" UnifiedID: "FAR.1.3" OriginalNumber: "" SAMName: "Acquisition Life Cycle" Description: "Phases of the acquisition process." Branches: - MegaBranchID: "FAR.1.3.1" MegaBranchName: "Pre-Award Phase" UnifiedID: "FAR.1.3.1" OriginalNumber: "" SAMName: "Pre-Award Phase" LargeBranches: - LargeBranchID: "FAR.1.3.1.1" LargeBranchName: "Solicitation Preparation" UnifiedID: "FAR.1.3.1.1" OriginalNumber: "" SAMName: "Solicitation Preparation" MediumBranches: - MediumBranchID: "FAR.1.3.1.1.1" MediumBranchName: "Request for Proposal (RFP)" UnifiedID: "FAR.1.3.1.1.1" OriginalNumber: "" SAMName: "RFP Development" SmallBranches: - SmallBranchID: "FAR.1.3.1.1.1.1" SmallBranchName: "Evaluation Criteria" UnifiedID: "FAR.1.3.1.1.1.1" OriginalNumber: "" SAMName: "Evaluation Criteria" Nodes: - NodeID: "FAR.1.3.1.1.1.1.1" NodeName: "Technical Proposal Evaluation Criteria" UnifiedID: "FAR.1.3.1.1.1.1.1" OriginalNumber: "" SAMName: "Technical Proposal Evaluation Criteria" Description: "Criteria for evaluating technical proposals as per FAR guidelines." RegulatoryReference: "FAR 15.304" Roles: - RoleID: "CO" RoleName: "Contracting Officer" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Develop evaluation criteria for technical proposals." - "Ensure compliance with RFP guidelines." Education: - "Bachelor's Degree in Business Administration." Certifications: - "FAC-C Level II" JobTraining: - "Training in technical proposal evaluation." AssociatedCodes: - NAICS: "541511" - PSC: "D302" - SIC: "7371" - NIC: "450" - LargeBranchID: "FAR.1.3.1.2" LargeBranchName: "Market Research" UnifiedID: "FAR.1.3.1.2" OriginalNumber: "" SAMName: "Market Research" MediumBranches: -
MediumBranchID: "FAR.1.3.1.2.1" MediumBranchName: "Supplier Identification" UnifiedID: "FAR.1.3.1.2.1" OriginalNumber: "" SAMName: "Supplier Identification" SmallBranches: - SmallBranchID: "FAR.1.3.1.2.1.1" SmallBranchName: "Supplier Capabilities Assessment" UnifiedID: "FAR.1.3.1.2.1.1" OriginalNumber: "" SAMName: "Supplier Capabilities Assessment" Nodes: - NodeID: "FAR.1.3.1.2.1.1.1" NodeName: "Assessing Supplier Capabilities" UnifiedID: "FAR.1.3.1.2.1.1.1" OriginalNumber: "" SAMName: "Assessing Supplier Capabilities" Description: "Techniques for assessing and validating supplier capabilities." RegulatoryReference: "FAR Part 10" Roles: - RoleID: "MRA" RoleName: "Market Research Analyst" LevelOfExpertise: "Entry-Level to Mid-Level" Subparts: JobTasks: - "Conduct market research to identify potential suppliers." - "Assess supplier capabilities and qualifications." Education: - "Bachelor's Degree in Market Analysis." Certifications: - "Federal Market Research Certification." JobTraining: - "On-the-job training in market research techniques." AssociatedCodes: - NAICS: "541910" - PSC: "R499" - SIC: "8743" - NIC: "740" - MegaBranchID: "FAR.1.3.2" MegaBranchName: "Award Phase" UnifiedID: "FAR.1.3.2" OriginalNumber: "" SAMName: "Award Phase" LargeBranches: - LargeBranchID: "FAR.1.3.2.1" LargeBranchName: "Proposal Evaluation" UnifiedID: "FAR.1.3.2.1" OriginalNumber: "" SAMName: "Proposal Evaluation" MediumBranches: - MediumBranchID: "FAR.1.3.2.1.1" MediumBranchName: "Technical Evaluation" UnifiedID: "FAR.1.3.2.1.1" OriginalNumber: "" SAMName: "Technical Evaluation" SmallBranches: - SmallBranchID: "FAR.1.3.2.1.1.1" SmallBranchName: "Technical Scoring Criteria" UnifiedID: "FAR.1.3.2.1.1.1" OriginalNumber: "" SAMName: "Technical Scoring Criteria" Nodes: - NodeID: "FAR.1.3.2.1.1.1.1" NodeName: "Technical Proposal Scoring" UnifiedID: "FAR.1.3.2.1.1.1.1" OriginalNumber: "" SAMName: "Technical Proposal Scoring" Description: "Scoring criteria for technical proposals as per FAR guidelines." RegulatoryReference: "FAR Subpart 15.3" Roles: - RoleID: "ETM" RoleName: "Evaluation Team Member" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Score technical proposals against evaluation criteria." - "Document evaluation findings." Education: - "Bachelor's Degree in Engineering or related field." Certifications: - "Technical Proposal Evaluation Certification." JobTraining: - "Training in technical proposal scoring." AssociatedCodes: - NAICS: "541511" - PSC: "D302" - SIC: "7371" - NIC: "450" - LargeBranchID: "FAR.1.3.2.2" LargeBranchName: "Contract Negotiation" UnifiedID: "FAR.1.3.2.2" OriginalNumber: "" SAMName: "Contract Negotiation" MediumBranches: - MediumBranchID: "FAR.1.3.2.2.1" MediumBranchName: "Negotiation Strategies" UnifiedID: "FAR.1.3.2.2.1" OriginalNumber: "" SAMName: "Negotiation Strategies" SmallBranches: - SmallBranchID: "FAR.1.3.2.2.1.1" SmallBranchName: "Negotiation Documentation" UnifiedID: "FAR.1.3.2.2.1.1" OriginalNumber: "" SAMName:

"Negotiation Documentation" Nodes: - NodeID: "FAR.1.3.2.2.1.1.1" NodeName: "Documenting Negotiation Outcomes" UnifiedID: "FAR.1.3.2.2.1.1.1" OriginalNumber: "" SAMName: "Documenting Negotiation Outcomes" Description: "Best practices for documenting negotiation outcomes and agreements." RegulatoryReference: "FAR Subpart 15.4" Roles: - RoleID: "CO" RoleName: "Contracting Officer" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Lead contract negotiations with suppliers." - "Document negotiation outcomes and agreements." Education: - "Bachelor's Degree in Business Administration." Certifications: - "FAC-C Level III" JobTraining: - "Advanced negotiation training." AssociatedCodes: - NAICS: "541511" - PSC: "D302" - SIC: "7371" - NIC: "450" - MegaBranchID: "FAR.1.3.3" MegaBranchName: "Post-Award Phase" UnifiedID: "FAR.1.3.3" OriginalNumber: "" SAMName: "Post-Award Phase" LargeBranches: - LargeBranchID: "FAR.1.3.3.1" LargeBranchName: "Contract Administration" UnifiedID: "FAR.1.3.3.1" OriginalNumber: "" SAMName: "Contract Administration" MediumBranches: - MediumBranchID: "FAR.1.3.3.1.1" MediumBranchName: "Contract Monitoring" UnifiedID: "FAR.1.3.3.1.1" OriginalNumber: "" SAMName: "Contract Monitoring" SmallBranches: - SmallBranchID: "FAR.1.3.3.1.1.1" SmallBranchName: "Performance Evaluation" UnifiedID: "FAR.1.3.3.1.1.1" OriginalNumber: "" SAMName: "Performance Evaluation" Nodes: - NodeID: "FAR.1.3.3.1.1.1.1" NodeName: "Contractor Performance Evaluation" UnifiedID: "FAR.1.3.3.1.1.1.1" OriginalNumber: "" SAMName: "Contractor Performance Evaluation" Description: "Evaluating contractor

performance post-award." RegulatoryReference: "FAR Part 42" Roles: - RoleID: "COR" RoleName: "Contracting Officer's Representative (COR)" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Monitor and evaluate contractor performance." - "Ensure compliance with contract terms." Education: - "Bachelor's Degree in Contract Management." Certifications: - "FAC-COR Level II" JobTraining: - "On-the-job training in contract administration." # Up to 3 additional Small Branches for Post-Award Phase # Up to 3 additional Medium Branches for Post-Award Phase # Up to 3 additional Large Branches for Post-Award Phase # Up to 3 additional Medium Branches for Contract Negotiation # Up to 3 additional Large Branches for Award Phase # Up to 3 additional Medium Branches for Market Research # Up to 3 additional Large Branches for Pre-Award Phase # Up to 3 additional Mega Branches for Acquisition Life Cycle # Up to 3 additional Levels for FAR - LevelID: "1.4" LevelName: "Legislative Branches" UnifiedID: "FAR.1.4" OriginalNumber: "" SAMName: "Legislative Branches" Description: "Legislative acts, bills, and laws affecting FAR regulations." Branches: - MegaBranchID: "FAR.1.4.1" MegaBranchName: "Congressional Acts" UnifiedID: "FAR.1.4.1" OriginalNumber: "" SAMName: "Congressional Acts" LargeBranches: - LargeBranchID: "FAR.1.4.1.1" LargeBranchName: "National Defense Authorization Act (NDAA)" UnifiedID: "FAR.1.4.1.1" OriginalNumber: "" SAMName: "National Defense Authorization Act" MediumBranches: - MediumBranchID: "FAR.1.4.1.1.1" MediumBranchName: "Acquisition Provisions" UnifiedID: "FAR.1.4.1.1.1" OriginalNumber: "" SAMName: "Acquisition Provisions" SmallBranches: - SmallBranchID: "FAR.1.4.1.1.1.1" SmallBranchName: "Procurement Simplification" UnifiedID: "FAR.1.4.1.1.1.1" OriginalNumber: "" SAMName: "Procurement Simplification" Nodes: - NodeID: "FAR.1.4.1.1.1.1.1" NodeName: "Procurement Threshold Increases" UnifiedID: "FAR.1.4.1.1.1.1.1" OriginalNumber: "NDAA 2020 Sec. 861" SAMName: "Procurement Threshold Increases" Description: "Increases in procurement thresholds for simplified acquisition." RegulatoryReference: "NDAA 2020 Sec. 861" Roles: - RoleID: "LPA" RoleName: "Legislative Policy Advisor" LevelOfExpertise: "Senior-Level" Subparts: JobTasks: - "Analyze legislative updates affecting acquisition thresholds." - "Draft compliance policies for agency adoption." Education: - "Bachelor's Degree in Political Science." - "Master's Degree in Public Administration (Optional)." Certifications: - "Certified Legislative Analyst." - "Government Policy Certification." JobTraining: - "Training in legislative impact analysis." - "On-the-job training in procurement compliance." AssociatedCodes: - NAICS: "9211" - PSC: "R4" - SIC: "9199" - NIC: "91" - NodeID: "FAR.1.4.1.1.1.1.2" NodeName: "Small Business Participation Enhancement" UnifiedID: "FAR.1.4.1.1.1.1.2" OriginalNumber: "NDAA 2021 Sec. 902" SAMName: "Small Business Participation Enhancement" Description: "Enhancements to small business participation in federal contracting." RegulatoryReference: "NDAA 2021 Sec. 902" Roles: - RoleID: "CO" RoleName: "Contracting Officer" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Implement policies to enhance small business participation." - "Ensure compliance with NDAA provisions." Education: - "Bachelor's Degree in Business Administration." Certifications: - "FAC-C Level III" - "DAWIA Certification in Contracting" JobTraining: - "Training in small business advocacy." AssociatedCodes: - NAICS: "541611" - PSC: "R4" - SIC: "8742" - NIC: "74" - LargeBranchID: "FAR.1.4.1.2" LargeBranchName: "CARES Act" UnifiedID: "FAR.1.4.1.2" OriginalNumber: "" SAMName: "CARES Act" MediumBranches: - MediumBranchID: "FAR.1.4.1.2.1" MediumBranchName: "Emergency Procurement Flexibilities" UnifiedID: "FAR.1.4.1.2.1" OriginalNumber: "" SAMName: "Emergency Procurement Flexibilities" SmallBranches: - SmallBranchID: "FAR.1.4.1.2.1.1" SmallBranchName: "COVID-19 Relief Provisions" UnifiedID: "FAR.1.4.1.2.1.1" OriginalNumber: "" SAMName: "COVID-19 Relief Provisions" Nodes: - NodeID:

"FAR.1.4.1.2.1.1.1" NodeName: "Emergency Procurement Authority" UnifiedID: "FAR.1.4.1.2.1.1.1" OriginalNumber: "CARES Act Section 3610" SAMName: "Emergency Procurement Authority" Description: "Flexibilities granted for procurement during COVID-19 pandemic." RegulatoryReference: "CARES Act Section 3610" Roles: - RoleID: "CS" RoleName: "Contract Specialist" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Utilize emergency procurement authorities for rapid response." - "Ensure compliance with CARES Act
provisions." Education: - "Bachelor's Degree in Business or Supply Chain Management." Certifications: - "CFCM" JobTraining: - "Training in emergency acquisition procedures." AssociatedCodes: - NAICS: "541611" - PSC: "R4" - SIC: "8742" - NIC: "74" - MegaBranchID: "FAR.1.4.2" MegaBranchName: "Executive Orders" UnifiedID: "FAR.1.4.2" OriginalNumber: "" SAMName: "Executive Orders" # ... (Large, Medium, and Small Branches with Nodes for executive orders) - LevelID: "FAR.1.5" LevelName: "FAR Catch-All" UnifiedID: "FAR.1.5" OriginalNumber: "" SAMName: "FAR Catch-All" Description: "FAR parts and clauses not covered in other sections." Branches: - MegaBranchID: "FAR.1.5.1" MegaBranchName: "Uncategorized FAR Parts" UnifiedID: "FAR.1.5.1" OriginalNumber: "" SAMName: "Uncategorized FAR Parts" # ... (Large, Medium, and Small Branches with Nodes for uncategorized FAR parts) - PillarID: "2" PillarName: "Department of Defense (DFARS)" UnifiedID: "DFARS" OriginalNumber: "DFARS" SAMName: "Defense Federal Acquisition Regulation Supplement" OwnerAgency: "Department of Defense (DoD)" EffectiveDate: "2023-01-01" ExpirationDate: "2026-12-31" Description: "Supplement to the FAR containing regulations specific to DoD procurement." BaseLevel: BaseLevelID: "DFARS-Base" BaseLevelName: "DFARS Parts" Branches: - MegaBranchID: "DFARS-Part-201" MegaBranchName: "DFARS Part 201 - Federal Acquisition System" UnifiedID: "DFARS.201" OriginalNumber: "201" SAMName: "DFARS Part 201 - Federal Acquisition System" Description: "Defines DoD-specific processes within the federal acquisition system." LargeBranches: - LargeBranchID: "DFARS-Part-201.1" LargeBranchName: "DFARS Subpart 201.1 - Purpose, Authority, Issuance" UnifiedID: "DFARS.201.1" OriginalNumber: "201.1" SAMName: "DFARS Subpart 201.1 - Purpose, Authority, Issuance" Description: "Establishes the DFARS and its relation to the FAR." MediumBranches: - MediumBranchID: "DFARS-Part-201.1.1" MediumBranchName: "DFARS Section 201.101 - Purpose" UnifiedID: "DFARS.201.1.1" OriginalNumber: "201.101" SAMName: "DFARS Section 201.101 - Purpose" Description: "Explains the purpose and context of DFARS within the DoD." SmallBranches: - SmallBranchID: "DFARS-Part-201.1.1.1" SmallBranchName: "DFARS Clause 201.101(a)" UnifiedID: "DFARS.201.1.1.1" OriginalNumber: "201.101(a)" SAMName: "DFARS Clause 201.101(a) - Purpose of the DFARS System" Description: "Details the purpose of the DFARS system." Nodes: - NodeID: "DFARS-Part-201.1.1.1.1" NodeName: "Purpose of the DFARS System" UnifiedID: "DFARS.201.1.1.1.1" OriginalNumber: "201.101(a)" SAMName: "Purpose of the DFARS System" Description: "Establishes the foundation of the DFARS system within DoD." RegulatoryReference: "DFARS 201.101(a)" Roles: - RoleID: "DP1" RoleName: "DoD Policy Analyst" LevelOfExpertise: "Senior-Level" Education: - "Master's degree in Public Policy, Law, or related field" Certifications: - "Certified Defense Financial Manager (CDFM)" KeySkills: - "Policy Analysis and Development" - "Legislative Research" - "Communication and Presentation Skills" JobDescription: "Advises on regulatory policies, ensuring compliance with legislative mandates and supporting rulemaking processes within the DoD. Often involved in initial planning phases for defense-specific acquisitions." TrainingResources: [] - MegaBranchID: "DFARS-Part-202" MegaBranchName: "DFARS Part 202 - Definitions of Words and Terms" UnifiedID: "DFARS.202" OriginalNumber: "202" SAMName: "DFARS Part 202 - Definitions of Words and Terms" Description: "Provides definitions specific to the Department of Defense acquisition processes." LargeBranches: - LargeBranchID: "DFARS-Part-202.1" LargeBranchName: "DFARS Subpart 202.1 - Definitions" UnifiedID: "DFARS.202.1" OriginalNumber: "202.1" SAMName: "DFARS Subpart 202.1 - Definitions" Description: "Lists definitions of key terms used in DFARS regulations." MediumBranches: - MediumBranchID: "DFARS-Part-202.1.1" MediumBranchName: "DFARS Section 202.101 - Definitions" UnifiedID: "DFARS.202.1.1" OriginalNumber: "202.101" SAMName: "DFARS Section 202.101 - Definitions" Description: "Contains the definitions of terms applicable within the DFARS." SmallBranches: - SmallBranchID: "DFARS-Part-202.1.1.1" SmallBranchName: "DFARS Clause 202.101(a) - Definitions" UnifiedID: "DFARS.202.1.1.1" OriginalNumber: "202.101(a)" SAMName: "DFARS Clause 202.101(a) - Definitions" Description: "Defines specific terms used throughout the DFARS." Nodes: - NodeID: "DFARS-Part-202.1.1.1.1" NodeName: "Definition of 'Commercial Item'" UnifiedID: "DFARS.202.1.1.1.1" OriginalNumber: "202.101(a)"
SAMName: "Definition of 'Commercial Item'" Description: "Defines what constitutes a 'commercial item' within the context of DoD contracting." RegulatoryReference: "DFARS 202.101(a)" Roles: - RoleID: "DCO" RoleName: "DoD Contracting Officer" LevelOfExpertise: "Mid-Level to Senior" Education: - "Bachelor's Degree in Business Administration." Certifications: - "FAC-C Level III" - "DAWIA Certification in Contracting" KeySkills: - "Contract Negotiation and Administration" - "Understanding of Government Acquisition" - "Compliance with FAR and DFARS" JobDescription: "Leads contract negotiations and administration, ensures that procured items meet defined 'commercial

item' requirements, and ensures compliance with relevant clauses." TrainingResources: [] # ... (Add all DFARS Parts) TreeLevels: - LevelID: "2.1" LevelName: "Sectors of Industry" UnifiedID: "DFARS.2.1" OriginalNumber: "" SAMName: "Sectors of Industry (DFARS)" Description: "Mapping of DFARS regulations to various defense-related industry sectors." Branches: - MegaBranchID: "DFARS.2.1.1" MegaBranchName: "Aerospace and Defense" UnifiedID: "DFARS.2.1.1" OriginalNumber: "" SAMName: "Aerospace and Defense (DFARS)" AssociatedCodes: - NAICS: "3364" - SIC: "3721-3728" - NIC: "236" - PSC: "15" LargeBranches: - LargeBranchID: "DFARS.2.1.1.1" LargeBranchName: "Military Aircraft Manufacturing" UnifiedID: "DFARS.2.1.1.1" OriginalNumber: "" SAMName: "Military Aircraft Manufacturing (DFARS)" AssociatedCodes: - NAICS: "336411" - SIC: "3721" - NIC: "2361" - PSC: "1510" MediumBranches: - MediumBranchID: "DFARS.2.1.1.1.1" MediumBranchName: "Airframe Assembly" UnifiedID: "DFARS.2.1.1.1.1" OriginalNumber: "" SAMName: "Airframe Assembly (DFARS)" AssociatedCodes: - NAICS: "336411" - SIC: "372101" - NIC: "236101" - PSC: "1510AA" SmallBranches: - SmallBranchID: "DFARS.2.1.1.1.1.1" SmallBranchName: "Structural Integrity Standards" UnifiedID: "DFARS.2.1.1.1.1.1" OriginalNumber: "" SAMName: "Structural Integrity Standards (DFARS)" AssociatedCodes: - NAICS: "336411" - SIC: "372101" - NIC: "236101" - PSC: "1510AA" Nodes: - NodeID: "DFARS.2.1.1.1.1.1.1" NodeName: "Aircraft Structural Integrity Provisions" UnifiedID: "DFARS.2.1.1.1.1.1.1" OriginalNumber: "" SAMName: "Aircraft Structural Integrity Provisions (DFARS)" Description: "Specific structural standards for military aircraft as per DFARS requirements." RegulatoryReference: "MIL-STD-1530" Roles: - RoleID: "DME" RoleName: "Defense Materials Engineer" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Ensure that materials used meet military structural integrity standards." - "Conduct structural analysis of aircraft parts." Education: - "Bachelor's Degree in Materials Science or Aerospace Engineering" - "Master's Degree in Aerospace Materials (Optional)" Certifications: - "Certified Materials Engineer (CME)" - "Aerospace Structure Certification" JobTraining: - "On-the-job training in aircraft structural integrity testing." - "Advanced training in MIL-STD requirements." AssociatedCodes: - NAICS: "336411" - SIC: "372101" - NIC: "236101" - PSC: "1510AA" - LargeBranchID: "DFARS.2.1.1.2" LargeBranchName: "Defense Systems and Equipment" UnifiedID: "DFARS.2.1.1.2" OriginalNumber: "" SAMName: "Defense Systems and Equipment (DFARS)" AssociatedCodes: - NAICS: "3369" - SIC: "3795-3799" - NIC: "373" - PSC: "23" MediumBranches: - MediumBranchID: "DFARS.2.1.1.2.1" MediumBranchName: "Ground Combat Vehicles Manufacturing" UnifiedID: "DFARS.2.1.1.2.1" OriginalNumber: "" SAMName: "Ground Combat Vehicles Manufacturing (DFARS)" AssociatedCodes: - NAICS: "336911" - SIC: "3795" - NIC: "3731" - PSC: "2310" SmallBranches: - SmallBranchID: "DFARS.2.1.1.2.1.1" SmallBranchName: "Armor Plating Standards" UnifiedID: "DFARS.2.1.1.2.1.1" OriginalNumber: "" SAMName: "Armor Plating Standards (DFARS)" AssociatedCodes: - NAICS: "336911" - SIC: "379501" - NIC: "373101" - PSC: "2310AB" Nodes: - NodeID: "DFARS.2.1.1.2.1.1.1" NodeName: "Military Armor Material Specifications" UnifiedID: "DFARS.2.1.1.2.1.1.1" OriginalNumber: "" SAMName: "Military Armor Material Specifications (DFARS)" Description: "Specific standards for armor plating in military ground vehicles per DFARS specifications." RegulatoryReference: "MIL-A-46103" Roles: - RoleID: "DMA" RoleName: "Defense Materials Analyst" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Ensure materials meet military armor specifications." - "Evaluate new armor technology options for military application." Education: - "Bachelor's Degree in Materials Engineering or related field" Certifications: - "Certified Materials Analyst" - "Armor Material Qualification Certification"

JobTraining: - "On-the-job training in armor material testing." - "Advanced training in military material specifications." AssociatedCodes: - NAICS: "336911" - SIC: "379501" - NIC: "373101" - PSC: "2310AB" # Up to 2 additional Large Branches for Aerospace and Defense - LargeBranchID: "DFARS.2.1.1.3" LargeBranchName: "Naval Systems and Shipbuilding" UnifiedID: "DFARS.2.1.1.3" OriginalNumber: "" SAMName: "Naval Systems and Shipbuilding (DFARS)" AssociatedCodes: - NAICS: "3366" - SIC: "3731-3732" - NIC: "336" - PSC: "19" # ... MediumBranches, SmallBranches, Nodes, and Roles - LargeBranchID: "DFARS.2.1.1.4" LargeBranchName: "Missile and Space Systems" UnifiedID: "DFARS.2.1.1.4" OriginalNumber: "" SAMName: "Missile and Space Systems (DFARS)" AssociatedCodes: - NAICS: "336414" - SIC: "3761-3769" - NIC: "2364" - PSC: "14" # ... MediumBranches, SmallBranches, Nodes, and Roles - MegaBranchID: "DFARS.2.1.2" MegaBranchName: "Cybersecurity and IT" UnifiedID: "DFARS.2.1.2" OriginalNumber: "" SAMName: "Cybersecurity and IT (DFARS)" AssociatedCodes: - NAICS: "54" - SIC: "737" - NIC: "611" - PSC: "D3" # Add up to 3 additional Large Branches for Cybersecurity and IT # ... (Large, Medium, and Small Branches with Nodes for Cybersecurity and IT) - MegaBranchID: "DFARS.2.1.3" MegaBranchName: "Logistics and Support" UnifiedID: "DFARS.2.1.3" OriginalNumber: "" SAMName: "Logistics and Support (DFARS)" AssociatedCodes: - NAICS: "493" - SIC: "422" - NIC: "488" - PSC: "V9" # ... (Large, Medium, and Small Branches with Nodes for Logistics and Support) - MegaBranchID: "DFARS.2.1.4" MegaBranchName: "Research and Development" UnifiedID: "DFARS.2.1.4" OriginalNumber: "" SAMName: "Research and Development (DFARS)"

AssociatedCodes: - NAICS: "5417" - SIC: "8731-8734" - NIC: "73" - PSC: "A" # ... (Large, Medium, and Small Branches with Nodes for R&D) - LevelID: "2.2" LevelName: "Federal Register" UnifiedID: "DFARS.2.2" OriginalNumber: "" SAMName: "Federal Register (DFARS)" Description: "Entries from the Federal Register specifically impacting DFARS regulations." Branches: - MegaBranchID: "DFARS.2.2.1" MegaBranchName: "DFARS Federal Register Updates" UnifiedID: "DFARS.2.2.1" OriginalNumber: "" SAMName: "DFARS Federal Register Updates" LargeBranches: - LargeBranchID: "DFARS.2.2.1.1" LargeBranchName: "Cybersecurity Updates" UnifiedID: "DFARS.2.2.1.1" OriginalNumber: "" SAMName: "Cybersecurity Updates (DFARS)" MediumBranches: - MediumBranchID: "DFARS.2.2.1.1.1" MediumBranchName: "Proposed Cybersecurity Rules" UnifiedID: "DFARS.2.2.1.1.1" OriginalNumber: "" SAMName: "Proposed Cybersecurity Rules (DFARS)" SmallBranches: - SmallBranchID: "DFARS.2.2.1.1.1.1" SmallBranchName: "Controlled Unclassified Information (CUI) Handling" UnifiedID: "DFARS.2.2.1.1.1.1" OriginalNumber: "" SAMName: "Controlled Unclassified Information (CUI) Handling (DFARS)" Nodes: - NodeID: "DFARS.2.2.1.1.1.1.1" NodeName: "CUI Requirements in Defense Contracting" UnifiedID: "DFARS.2.2.1.1.1.1.1" OriginalNumber: "FR-2023-90-SR1-CUI" SAMName: "CUI Requirements in Defense Contracting (DFARS)" Description: "Mandates for handling CUI in DFARS regulated contracts." RegulatoryReference: "Federal Register Vol. 90, No. 5" PublicationDate: "2023-02-10" Status: "Proposed" Roles: - RoleID: "DCS" RoleName: "DoD Cybersecurity Specialist" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Interpret and implement new CUI requirements." - "Ensure contractor compliance with security standards." Education: - "Bachelor's Degree in Cybersecurity or Information Assurance." - "Master's Degree in Cybersecurity Management (Optional)." Certifications: - "Certified Information Systems Security Professional (CISSP)." - "DoD Cybersecurity Certification." JobTraining: - "Training in handling Controlled Unclassified Information (CUI)." - "Experience in implementing DoD cybersecurity standards." AssociatedCodes: - NAICS: "541513" - PSC: "D310" - SIC: "7372" - NIC: "6111" - LargeBranchID: "DFARS.2.2.1.2" LargeBranchName: "Procurement Amendments" UnifiedID: "DFARS.2.2.1.2" OriginalNumber: "" SAMName: "Procurement Amendments (DFARS)" # ... (MediumBranches, SmallBranches, and Nodes for Procurement Amendments) - LevelID: "2.3" LevelName: "Acquisition Life Cycle" UnifiedID: "DFARS.2.3" OriginalNumber: "" SAMName: "Acquisition Life Cycle (DFARS)" Description: "Phases of the acquisition process specific to the DoD." Branches: - MegaBranchID: "DFARS.2.3.1" MegaBranchName: "Pre-Award Phase (DFARS)" UnifiedID: "DFARS.2.3.1" OriginalNumber: "" SAMName: "Pre-Award Phase (DFARS)" # ... (Large, Medium, and Small Branches with Nodes for DFARS Pre-Award Phase) - MegaBranchID: "DFARS.2.3.2" MegaBranchName: "Award Phase (DFARS)" UnifiedID: "DFARS.2.3.2" OriginalNumber: "" SAMName: "Award Phase (DFARS)" # ... (Large, Medium, and Small Branches with Nodes for DFARS Award Phase) - MegaBranchID: "DFARS.2.3.3" MegaBranchName: "Post-Award Phase (DFARS)" UnifiedID: "DFARS.2.3.3" OriginalNumber: "" SAMName: "Post-Award Phase (DFARS)" # ... (Large, Medium, and Small Branches with Nodes for DFARS Post-Award Phase) - LevelID: "2.4" LevelName: "Legislative Branches" UnifiedID: "DFARS.2.4" OriginalNumber: "" SAMName: "Legislative Branches (DFARS)" Description: "Legislative acts, bills, and laws affecting DFARS regulations." Branches: - MegaBranchID: "DFARS.2.4.1" MegaBranchName: "Congressional Acts (DFARS)" UnifiedID: "DFARS.2.4.1" OriginalNumber: "" SAMName: "Congressional Acts (DFARS)" # ... (Large, Medium, and Small Branches with Nodes for DFARS Congressional Acts) - MegaBranchID: "DFARS.2.4.2" MegaBranchName: "Executive Orders (DFARS)" UnifiedID: "DFARS.2.4.2" OriginalNumber: "" SAMName: "Executive Orders (DFARS)" # ... (Large, Medium, and Small Branches with Nodes for DFARS Executive Orders) - LevelID: "DFARS.2.5" LevelName: "DFARS Catch-All" UnifiedID: "DFARS.2.5" OriginalNumber: "" SAMName: "DFARS Catch-All" Description: "DFARS parts and clauses not covered in other sections." Branches: - MegaBranchID: "DFARS.2.5.1" MegaBranchName: "Uncategorized DFARS Parts" UnifiedID: "DFARS.2.5.1" OriginalNumber: "" SAMName: "Uncategorized DFARS Parts" # ... (Large, Medium, and Small Branches with Nodes for uncategorized DFARS parts) ... (Add other pillars for each department, agency, state, etc.) SpiderWeb_Nodes: - NodeID: "SW-FAR-DFARS-ENV-001" Description: "Links FAR and DFARS environmental standards to EPA regulations" Source: "FAR.1.1.1.1.1.1.1" Target: "DFARS.2.1.2.1.1.1.1" UnifiedID: "SW-FAR-DFARS-ENV-001" OriginalNumber: "" SAMName: "Environmental Standards Cross-Reference" - NodeID: "SW-FAR-DFARS-CYB-001" Description: "Links FAR and DFARS cybersecurity standards." Source: "FAR.1.2.1.1.1.1.1" Target: "DFARS.2.2.1.1.1.1.1" UnifiedID: "SW-FAR-DFARS-CYB-001" OriginalNumber: "" SAMName: "Cybersecurity Standards Cross-Reference" Octopus_Nodes: - NodeID: "ON-SBA-001" Description: "Overarching node for Small Business Administration (SBA) regulations" Source: "SBA Regulations" References: - "FAR.1.1.1.1.1.1.1" - "DFARS.2.1.2.1.1.1.1" - "SAR.CA.1.2.3.4" UnifiedID: "ON-SBA-001" OriginalNumber: "" SAMName: "SBA Regulatory Compliance" - NodeID: "ON-ENV-001" Description: "Overarching node for all environmental regulations (EPA)" Source: "EPA Regulations" References: - "FAR.1.2.1.2.1.1.1" -

"DFARS.2.1.1.2.1.1.1" - "SAR.NY.1.2.3.4" UnifiedID: "ON-ENV-001" OriginalNumber: "" SAMName: "EPA Regulatory Compliance" Honeycomb_Nodes: - NodeID: "HC-FAR-DFAR-001" Description: "Honeycomb node linking FAR and DFARS for cybersecurity requirements" Source: "FAR.1.2.1.1.1.1.1" Target: "DFARS.2.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-DFAR-001" OriginalNumber: "" SAMName: "FAR-DFAR Cybersecurity Cross-Reference" - NodeID: "HC-FAR-DFAR-PRO-001" Description: "Honeycomb node linking FAR and DFARS for procurement process." Source: "FAR.1.3.1.1.1.1.1" Target: "DFARS.2.3.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-DFAR-PRO-001" OriginalNumber: "" SAMName: "FAR-DFAR Procurement Process Cross-Reference" - NodeID: "HC-FAR-SAR-001" Description: "Honeycomb node linking FAR and state regulations (example SAR - State of California)" Source: "FAR.1.3.1.1.1.1.1" Target: "SAR.CA.1.3.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SAR-001" OriginalNumber: "" SAMName: "FAR-SAR Procurement Process Cross-Reference" Pillars: #Adding State of California Example - PillarID: "3" PillarName: "State of California Acquisition Regulation (SAR)" UnifiedID: "SAR.CA" OriginalNumber: "SAR-CA" SAMName: "State of California Acquisition Regulation" OwnerAgency: "California Department of General Services (DGS)" EffectiveDate: "2023-01-01" ExpirationDate: "2026-12-31" Description: "Procurement regulations for the State of California." BaseLevel: BaseLevelID: "SAR-CA-Base" BaseLevelName: "SAR Parts" Branches: - MegaBranchID: "SAR-CA-Part-1" MegaBranchName: "SAR Part 1 - General Provisions" UnifiedID: "SAR.CA.1" OriginalNumber: "1" SAMName: "SAR Part 1 - General Provisions" Description: "General rules and regulations governing State of California procurement." LargeBranches: -
LargeBranchID: "SAR-CA-Part-1.1" LargeBranchName: "SAR Subpart 1.1 - Introduction and Definitions" UnifiedID: "SAR.CA.1.1" OriginalNumber: "1.1" SAMName: "SAR Subpart 1.1 - Introduction and Definitions" Description: "Introduction to California's procurement rules and key definitions." MediumBranches: - MediumBranchID: "SAR-CA-Part-1.1.1" MediumBranchName: "SAR Section 1.101 - Purpose" UnifiedID: "SAR.CA.1.1.1" OriginalNumber: "1.101" SAMName: "SAR Section 1.101 - Purpose" Description: "Explains the objective of California's procurement regulations." SmallBranches: - SmallBranchID: "SAR-CA-Part-1.1.1.1" SmallBranchName: "SAR Clause 1.101(a) - Policy Statement" UnifiedID: "SAR.CA.1.1.1.1" OriginalNumber: "1.101(a)" SAMName: "SAR Clause 1.101(a) - Policy Statement" Description: "Detailed policy statement of the California procurement system." Nodes: - NodeID: "SAR-CA-Part-1.1.1.1.1" NodeName: "Purpose of the SAR System" UnifiedID: "SAR.CA.1.1.1.1.1" OriginalNumber: "1.101(a)" SAMName: "Purpose of the SAR System" Description: "Establishes the foundation for the State's procurement system." RegulatoryReference: "SAR 1.101(a)" Roles: - RoleID: "S1" RoleName: "State Procurement Policy Analyst" LevelOfExpertise: "Senior-Level" Education: - "Master's degree in Public Administration, Law, or related field" Certifications: - "Certified Public Procurement Officer (CPPO)" KeySkills: - "State policy analysis and development" - "Legislative and regulatory research" - "Communication and stakeholder engagement" JobDescription: "Advises on state procurement policies, ensures compliance with state laws, and supports rulemaking. Involved in initial planning phases of state procurements." TrainingResources: [] # ... (Continue with other SAR Parts, Subparts, Sections, and Clauses) TreeLevels: - LevelID: "3.1" LevelName: "Sectors of Industry (SAR)" UnifiedID: "SAR.CA.3.1" OriginalNumber: "" SAMName: "Sectors of Industry (SAR)" Description: "Mapping of SAR regulations to various industry sectors in California." Branches: - MegaBranchID: "SAR-CA.3.1.1" MegaBranchName: "Public Works and Construction" UnifiedID: "SAR.CA.3.1.1" OriginalNumber: "" SAMName: "Public Works and Construction (SAR)" AssociatedCodes: - NAICS: "23" - SIC: "1500-1799" - NIC: "410" - PSC: "Y1" LargeBranches: - LargeBranchID: "SAR-CA.3.1.1.1" LargeBranchName: "Infrastructure Development" UnifiedID: "SAR.CA.3.1.1.1" OriginalNumber: "" SAMName: "Infrastructure Development (SAR)" AssociatedCodes: - NAICS: "237" - SIC: "1600-1629" - NIC: "4103" - PSC: "Y1F" MediumBranches: - MediumBranchID: "SAR-CA.3.1.1.1.1" MediumBranchName: "Highway Construction" UnifiedID: "SAR.CA.3.1.1.1.1" OriginalNumber: "" SAMName: "Highway Construction (SAR)" AssociatedCodes: - NAICS: "237310" - SIC: "1611" - NIC: "410301" - PSC: "Y1FA" SmallBranches: - SmallBranchID: "SAR-CA.3.1.1.1.1.1" SmallBranchName: "Road Paving Standards" UnifiedID: "SAR.CA.3.1.1.1.1.1" OriginalNumber: "" SAMName: "Road Paving Standards (SAR)" AssociatedCodes: - NAICS: "237310" - SIC: "161101" - NIC: "410301" - PSC: "Y1FAA" Nodes: - NodeID: "SAR-CA.3.1.1.1.1.1.1" NodeName: "California Pavement Specifications" UnifiedID: "SAR.CA.3.1.1.1.1.1.1" OriginalNumber: "" SAMName: "California Pavement Specifications (SAR)" Description: "Specific pavement standards for State of California highways and roads." RegulatoryReference: "Caltrans Standard Specifications" Roles: - RoleID: "CSP" RoleName: "California State Paving Engineer" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Ensure compliance with California pavement specifications." - "Conduct quality control checks on road construction projects." Education: - "Bachelor's Degree in Civil Engineering" - "Master's Degree in Transportation Engineering (Optional)" Certifications: - "Professional Engineer (PE) License in California" - "Certified Pavement Engineer" JobTraining: - "On-the-job training

in road paving inspection." - "Advanced training in Caltrans specifications." AssociatedCodes: - NAICS: "237310" - SIC: "161101" - NIC: "410301" - PSC: "Y1FAA" # ... Add more sectors for the State of California - LevelID: "3.2" LevelName: "State Register (SAR)" UnifiedID: "SAR.CA.3.2" OriginalNumber: "" SAMName: "State Register (SAR)" Description: "Entries from the State Register impacting SAR regulations in California." Branches: - MegaBranchID: "SAR-CA.3.2.1" MegaBranchName: "SAR Federal Register Updates" UnifiedID: "SAR.CA.3.2.1" OriginalNumber: "" SAMName: "SAR State Register Updates" LargeBranches: - LargeBranchID: "SAR-CA.3.2.1.1" LargeBranchName: "California Procurement Amendments" UnifiedID: "SAR.CA.3.2.1.1" OriginalNumber: "" SAMName: "California Procurement Amendments (SAR)" MediumBranches: - MediumBranchID: "SAR-CA.3.2.1.1.1" MediumBranchName: "Proposed Rule on Green Procurement" UnifiedID: "SAR.CA.3.2.1.1.1" OriginalNumber: "" SAMName: "Proposed Rule on Green Procurement (SAR)" SmallBranches: - SmallBranchID: "SAR-CA.3.2.1.1.1.1" SmallBranchName: "Sustainable Materials Requirements" UnifiedID: "SAR.CA.3.2.1.1.1.1" OriginalNumber: "" SAMName: "Sustainable Materials Requirements (SAR)" Nodes: - NodeID: "SAR-CA.3.2.1.1.1.1.1" NodeName: "State of California Green Procurement Requirements" UnifiedID: "SAR.CA.3.2.1.1.1.1.1" OriginalNumber: "CA-StateReg-2023-001" SAMName: "State of California Green Procurement Requirements (SAR)" Description: "Mandates for using sustainable materials in state procurement as per SAR." RegulatoryReference: "California State Register 2023, Notice 001" PublicationDate: "2023-04-15" Status: "Proposed" Roles: - RoleID: "SCS" RoleName: "California State Sustainability Specialist" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Evaluate proposed green procurement requirements for state compliance." - "Guide stakeholders on sustainable material options." Education: - "Bachelor's Degree in Environmental Management or Sustainability." - "Master's Degree in Environmental Policy (Optional)." Certifications: - "Certified Sustainability Specialist (CSS)." - "California Green Building Certification." JobTraining: - "Training in green procurement practices." - "On-the-job experience in state environmental requirements." AssociatedCodes: - NAICS: "541620" - PSC: "F" - SIC: "8742" - NIC: "740" # ... Add More Federal and State register details - LevelID: "3.3" LevelName: "Acquisition Life Cycle (SAR)" UnifiedID: "SAR.CA.3.3" OriginalNumber: "" SAMName: "Acquisition Life Cycle (SAR)" Description: "Phases of the acquisition process specific to the State of California." Branches: - MegaBranchID: "SAR-CA.3.3.1" MegaBranchName: "Pre-Award Phase (SAR)" UnifiedID: "SAR.CA.3.3.1" OriginalNumber: "" SAMName: "Pre-Award Phase (SAR)" # ... (Large, Medium, and Small Branches with Nodes for SAR Pre-Award Phase) - MegaBranchID: "SAR-CA.3.3.2" MegaBranchName: "Award Phase (SAR)" UnifiedID: "SAR.CA.3.3.2" OriginalNumber: "" SAMName: "Award Phase (SAR)" # ... (Large, Medium, and Small Branches with Nodes for SAR Award Phase) - MegaBranchID: "SAR-CA.3.3.3" MegaBranchName: "Post-Award Phase (SAR)" UnifiedID: "SAR.CA.3.3.3" OriginalNumber: "" SAMName: "Post-Award Phase (SAR)" # ... (Large, Medium, and Small Branches with Nodes for SAR Post-Award Phase) - LevelID: "3.4" LevelName: "Legislative Branches (SAR)" UnifiedID: "SAR.CA.3.4" OriginalNumber: "" SAMName: "Legislative Branches (SAR)" Description: "Legislative acts, bills, and laws affecting SAR regulations." Branches: - MegaBranchID: "SAR-CA.3.4.1" MegaBranchName: "State Legislative Acts (SAR)" UnifiedID: "SAR.CA.3.4.1" OriginalNumber: "" SAMName: "State Legislative Acts (SAR)" # ... (Large, Medium, and Small Branches with Nodes for SAR State Legislative Acts) - MegaBranchID: "SAR-CA.3.4.2" MegaBranchName: "Executive Orders (SAR)" UnifiedID: "SAR.CA.3.4.2" OriginalNumber: "" SAMName: "Executive Orders (SAR)" # ... (Large, Medium, and Small Branches with Nodes for SAR Executive Orders) - LevelID: "SAR.CA.3.5" LevelName: "SAR Catch-All" UnifiedID: "SAR.CA.3.5" OriginalNumber: "" SAMName: "SAR Catch-All" Description: "SAR parts and clauses not covered in other sections." Branches: - MegaBranchID: "SAR-CA.3.5.1" MegaBranchName: "Uncategorized SAR Parts" UnifiedID: "SAR.CA.3.5.1" OriginalNumber: "" SAMName: "Uncategorized SAR Parts" # ... (Large, Medium, and Small Branches with Nodes for uncategorized SAR parts) # Add more pillars for other states or local procurement SpiderWeb_Nodes: - NodeID: "SW-FAR-DFARS-ENV-001" Description: "Links FAR and DFARS environmental standards to EPA regulations" Source: "FAR.1.1.1.1.1.1.1" Target: "DFARS.2.1.2.1.1.1.1" UnifiedID: "SW-FAR-DFARS-ENV-001" OriginalNumber: "" SAMName: "Environmental Standards Cross-Reference" - NodeID: "SW-FAR-DFARS-CYB-001" Description: "Links FAR and DFARS cybersecurity standards." Source: "FAR.1.2.1.1.1.1.1" Target: "DFARS.2.2.1.1.1.1.1" UnifiedID: "SW-FAR-DFARS-CYB-001" OriginalNumber: "" SAMName: "Cybersecurity Standards Cross-Reference" - NodeID: "SW-FAR-SAR-ENV-001" Description: "Links FAR and SAR environmental standards related to green procurement." Source: "FAR.1.2.1.2.1.1.1" Target: "SAR.CA.3.2.1.1.1.1.1" UnifiedID: "SW-FAR-SAR-ENV-001" OriginalNumber: "" SAMName: "FAR-SAR Environmental Cross-Reference" Octopus_Nodes: - NodeID: "ON-SBA-001" Description: "Overarching node for Small Business Administration (SBA) regulations" Source: "SBA Regulations" References: - "FAR.1.1.1.1.1.1.1" - "DFARS.2.1.2.1.1.1.1" - "SAR.CA.1.2.3.4" UnifiedID: "ON-SBA-001" OriginalNumber: "" SAMName: "SBA Regulatory Compliance" - NodeID: "ON-ENV-001" Description:

"Overarching node for all environmental regulations (EPA)" Source: "EPA Regulations" References: - "FAR.1.2.1.2.1.1.1" - "DFARS.2.1.1.2.1.1.1" - "SAR.NY.1.2.3.4" UnifiedID: "ON-ENV-001" OriginalNumber: "" SAMName: "EPA Regulatory Compliance" - NodeID: "ON-CAL-GOV-001" Description: "Overarching node for California State Government procurement guidelines" Source: "California Department of General Services (DGS) Procurement Guidelines" References: - "SAR.CA.1.1.1.1.1" - "SAR.CA.3.2.1.1.1.1.1" - "SAR.CA.3.1.1.1.1.1.1" UnifiedID: "ON-CAL-GOV-001" OriginalNumber: "" SAMName: "California State Procurement Compliance" Honeycomb_Nodes: - NodeID: "HC-FAR-DFAR-001" Description: "Honeycomb node linking FAR and DFARS for cybersecurity requirements" Source: "FAR.1.2.1.1.1.1.1" Target: "DFARS.2.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-DFAR-001" OriginalNumber: "" SAMName: "FAR-DFAR Cybersecurity Cross-Reference" - NodeID: "HC-FAR-DFAR-PRO-001" Description: "Honeycomb node linking FAR and DFARS for procurement process." Source: "FAR.1.3.1.1.1.1.1" Target: "DFARS.2.3.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-DFAR-PRO-001" OriginalNumber: "" SAMName: "FAR-DFAR Procurement Process Cross-Reference" - NodeID: "HC-FAR-SAR-001" Description: "Honeycomb node linking FAR and state regulations (example SAR - State of California)" Source: "FAR.1.3.1.1.1.1.1" Target: "SAR.CA.1.3.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SAR-001" OriginalNumber: "" SAMName: "FAR-SAR Procurement Process Cross-Reference" - NodeID: "HC-FAR-SAR-SUST-001" Description: "Honeycomb node linking FAR and SAR for sustainability requirements." Source: "FAR.1.2.1.2.1.1.1" Target: "SAR.CA.3.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SAR-SUST-001" OriginalNumber: "" SAMName: "FAR-SAR Sustainability Cross-Reference" Pillars: #Adding City of San Francisco Example - PillarID: "4" PillarName: "City of San Francisco Acquisition Regulation (SFAR)" UnifiedID: "SFAR.SF" OriginalNumber: "SFAR-SF" SAMName: "City of San Francisco Acquisition Regulation" OwnerAgency: "San Francisco Office of Contract Administration (OCA)" EffectiveDate: "2023-01-01" ExpirationDate: "2026-12-31" Description: "Procurement regulations for the City of San Francisco." BaseLevel: BaseLevelID: "SFAR-SF-Base" BaseLevelName: "SFAR Parts" Branches: - MegaBranchID: "SFAR-SF-Part-1" MegaBranchName: "SFAR Part 1 - General Provisions" UnifiedID: "SFAR.SF.1" OriginalNumber: "1" SAMName: "SFAR Part 1 - General Provisions" Description: "General rules governing the procurement process in San Francisco." LargeBranches: - LargeBranchID: "SFAR-SF-Part-1.1" LargeBranchName: "SFAR Subpart 1.1 - Introduction" UnifiedID: "SFAR.SF.1.1" OriginalNumber: "1.1" SAMName: "SFAR Subpart 1.1 - Introduction" Description: "Introduction to the City's procurement guidelines." MediumBranches: - MediumBranchID: "SFAR-SF-Part-1.1.1" MediumBranchName: "SFAR Section 1.101 - Purpose" UnifiedID: "SFAR.SF.1.1.1" OriginalNumber: "1.101" SAMName: "SFAR Section 1.101 - Purpose" Description: "Purpose of the City of San Francisco's procurement regulations." SmallBranches: - SmallBranchID: "SFAR-SF-Part-1.1.1.1" SmallBranchName: "SFAR Clause 1.101(a) - Mission Statement" UnifiedID: "SFAR.SF.1.1.1.1" OriginalNumber: "1.101(a)" SAMName: "SFAR Clause 1.101(a) - Mission Statement" Description: "Mission statement of the City's procurement system." Nodes: - NodeID: "SFAR-SF-Part-1.1.1.1.1" NodeName: "Purpose of the SFAR System" UnifiedID: "SFAR.SF.1.1.1.1.1" OriginalNumber: "1.101(a)" SAMName: "Purpose of the SFAR System" Description: "Establishes the objectives of the City's procurement system." RegulatoryReference: "SFAR 1.101(a)" Roles: - RoleID: "C1" RoleName: "City Procurement Policy Analyst" LevelOfExpertise: "Mid-Level to Senior" Education: - "Master's degree in Public Policy or related field" Certifications: - "Certified Municipal Procurement Professional (CMPP)" KeySkills: - "Local procurement policy analysis" - "Municipal legislative and regulatory analysis" - "Communication and stakeholder coordination" JobDescription: "Advises on the City's procurement policies, ensures compliance, and supports local
rulemaking. Involved in initial planning phases of City procurement." TrainingResources: [] # ... (Continue with other SFAR Parts, Subparts, Sections, and Clauses) TreeLevels: - LevelID: "4.1" LevelName: "Sectors of Industry (SFAR)" UnifiedID: "SFAR.SF.4.1" OriginalNumber: "" SAMName: "Sectors of Industry (SFAR)" Description: "Mapping of SFAR regulations to various industry sectors in San Francisco." Branches: - MegaBranchID: "SFAR-SF.4.1.1" MegaBranchName: "Local Infrastructure Projects" UnifiedID: "SFAR.SF.4.1.1" OriginalNumber: "" SAMName: "Local Infrastructure Projects (SFAR)" AssociatedCodes: - NAICS: "237" - SIC: "1600-1629" - NIC: "4103" - PSC: "Y1F" LargeBranches: - LargeBranchID: "SFAR-SF.4.1.1.1" LargeBranchName: "Public Transportation Upgrades" UnifiedID: "SFAR.SF.4.1.1.1" OriginalNumber: "" SAMName: "Public Transportation Upgrades (SFAR)" AssociatedCodes: - NAICS: "4851" - SIC: "4111-4119" - NIC: "4141" - PSC: "V1TA" MediumBranches: - MediumBranchID: "SFAR-SF.4.1.1.1.1" MediumBranchName: "Streetcar Maintenance" UnifiedID: "SFAR.SF.4.1.1.1.1" OriginalNumber: "" SAMName: "Streetcar Maintenance (SFAR)" AssociatedCodes: - NAICS: "488111" - SIC: "411101" - NIC: "414101" - PSC: "V1TA01" SmallBranches: - SmallBranchID: "SFAR-SF.4.1.1.1.1.1" SmallBranchName: "Track Maintenance Standards" UnifiedID: "SFAR.SF.4.1.1.1.1.1" OriginalNumber: "" SAMName: "Track Maintenance Standards (SFAR)" AssociatedCodes: - NAICS: "488111" - SIC:

"411101" - NIC: "414101" - PSC: "V1TA01" Nodes: - NodeID: "SFAR-SF.4.1.1.1.1.1.1" NodeName: "San Francisco Streetcar Track Specifications" UnifiedID: "SFAR.SF.4.1.1.1.1.1.1" OriginalNumber: "" SAMName: "San Francisco Streetcar Track Specifications (SFAR)" Description: "Specific standards for maintaining streetcar tracks in San Francisco." RegulatoryReference: "SFMTA Maintenance Standards" Roles: - RoleID: "TME" RoleName: "Transportation Maintenance Engineer" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Oversee maintenance of city streetcar tracks." - "Ensure compliance with city maintenance standards." Education: - "Bachelor's Degree in Civil Engineering or Transportation Engineering" - "Master's Degree in Municipal Engineering (Optional)" Certifications: - "Certified Transportation Engineer (CTE)" - "Municipal Infrastructure Certification" JobTraining: - "On-the-job training in streetcar track inspection and maintenance." - "Advanced training in SFMTA standards." AssociatedCodes: - NAICS: "488111" - SIC: "411101" - NIC: "414101" - PSC: "V1TA01" # ... Add more sectors for City of San Francisco - LevelID: "4.2" LevelName: "City Register (SFAR)" UnifiedID: "SFAR.SF.4.2" OriginalNumber: "" SAMName: "City Register (SFAR)" Description: "Entries from the City Register impacting SFAR regulations in San Francisco." Branches: - MegaBranchID: "SFAR-SF.4.2.1" MegaBranchName: "SFAR City Register Updates" UnifiedID: "SFAR.SF.4.2.1" OriginalNumber: "" SAMName: "SFAR City Register Updates" LargeBranches: - LargeBranchID: "SFAR-SF.4.2.1.1" LargeBranchName: "San Francisco Procurement Amendments" UnifiedID: "SFAR.SF.4.2.1.1" OriginalNumber: "" SAMName: "San Francisco Procurement Amendments (SFAR)" MediumBranches: - MediumBranchID: "SFAR-SF.4.2.1.1.1" MediumBranchName: "Proposed Rule on Local Business Preference" UnifiedID: "SFAR.SF.4.2.1.1.1" OriginalNumber: "" SAMName: "Proposed Rule on Local Business Preference (SFAR)" SmallBranches: - SmallBranchID: "SFAR-SF.4.2.1.1.1.1" SmallBranchName: "Local Business Certification Requirements" UnifiedID: "SFAR.SF.4.2.1.1.1.1" OriginalNumber: "" SAMName: "Local Business Certification Requirements (SFAR)" Nodes: - NodeID: "SFAR-SF.4.2.1.1.1.1.1" NodeName: "San Francisco Local Business Preference Guidelines" UnifiedID: "SFAR.SF.4.2.1.1.1.1.1" OriginalNumber: "SF-CityReg-2023-002" SAMName: "San Francisco Local Business Preference Guidelines (SFAR)" Description: "Guidelines for implementing local business preference in San Francisco procurements." RegulatoryReference: "San Francisco City Register 2023, Notice 002" PublicationDate: "2023-05-20" Status: "Proposed" Roles: - RoleID: "CBA" RoleName: "City Business Analyst" LevelOfExpertise: "Mid-Level" Subparts: JobTasks: - "Evaluate proposed guidelines for local business preference and compliance." - "Provide guidance to local businesses seeking procurement opportunities." Education: - "Bachelor's Degree in Business Administration or Public Administration." Certifications: - "Certified Local Business Specialist." - "Municipal Procurement Certification." JobTraining: - "Training in local business preference guidelines." - "Experience in municipal compliance."
AssociatedCodes: - NAICS: "541611" - PSC: "R4" - SIC: "8742" - NIC: "740" # ... Add more city register details - LevelID: "4.3" LevelName: "Acquisition Life Cycle (SFAR)" UnifiedID: "SFAR.SF.4.3" OriginalNumber: "" SAMName: "Acquisition Life Cycle (SFAR)" Description: "Phases of the acquisition process specific to the City of San Francisco." Branches: - MegaBranchID: "SFAR-SF.4.3.1" MegaBranchName: "Pre-Award Phase (SFAR)" UnifiedID: "SFAR.SF.4.3.1" OriginalNumber: "" SAMName: "Pre-Award Phase (SFAR)" # ... (Large, Medium, and Small Branches with Nodes for SFAR Pre-Award Phase) - MegaBranchID: "SFAR-SF.4.3.2" MegaBranchName: "Award Phase (SFAR)" UnifiedID: "SFAR.SF.4.3.2" OriginalNumber: "" SAMName: "Award Phase (SFAR)" # ... (Large, Medium, and Small Branches with Nodes for SFAR Award Phase) - MegaBranchID: "SFAR-SF.4.3.3" MegaBranchName: "Post-Award Phase (SFAR)" UnifiedID: "SFAR.SF.4.3.3" OriginalNumber: "" SAMName: "Post-Award Phase (SFAR)" # ... (Large, Medium, and Small Branches with Nodes for SFAR Post-Award Phase) - LevelID: "4.4" LevelName: "Legislative Branches (SFAR)" UnifiedID: "SFAR.SF.4.4" OriginalNumber: "" SAMName: "Legislative Branches (SFAR)" Description: "Legislative acts, bills, and laws affecting SFAR regulations." Branches: - MegaBranchID: "SFAR-SF.4.4.1" MegaBranchName: "City Ordinances (SFAR)" UnifiedID: "SFAR.SF.4.4.1" OriginalNumber: "" SAMName: "City Ordinances (SFAR)" # ... (Large, Medium, and Small Branches with Nodes for SFAR City Ordinances) - MegaBranchID: "SFAR-SF.4.4.2" MegaBranchName: "Executive Orders (SFAR)" UnifiedID: "SFAR.SF.4.4.2" OriginalNumber: "" SAMName: "Executive Orders (SFAR)" # ... (Large, Medium, and Small Branches with Nodes for SFAR Executive Orders) - LevelID: "SFAR.SF.4.5" LevelName: "SFAR Catch-All" UnifiedID: "SFAR.SF.4.5" OriginalNumber: "" SAMName: "SFAR Catch-All" Description: "SFAR parts and clauses not covered in other sections." Branches: - MegaBranchID: "SFAR-SF.4.5.1" MegaBranchName: "Uncategorized SFAR Parts" UnifiedID: "SFAR.SF.4.5.1" OriginalNumber: "" SAMName: "Uncategorized SFAR Parts" # ... (Large, Medium, and Small Branches with Nodes for uncategorized SFAR parts) SpiderWeb_Nodes: - NodeID: "SW-FAR-DFARS-ENV-001" Description: "Links FAR and DFARS environmental standards to EPA regulations" Source: "FAR.1.1.1.1.1.1.1" Target: "DFARS.2.1.2.1.1.1.1" UnifiedID: "SW-FAR-DFARS-ENV-001" OriginalNumber: "" SAMName: "Environmental Standards Cross-Reference" - NodeID: "SW-FAR-DFARS-CYB-001" Description: "Links

FAR and DFARS cybersecurity standards." Source: "FAR.1.2.1.1.1.1.1" Target: "DFARS.2.2.1.1.1.1.1" UnifiedID: "SW-FAR-DFARS-CYB-001" OriginalNumber: "" SAMName: "Cybersecurity Standards Cross-Reference" - NodeID: "SW-FAR-SAR-ENV-001" Description: "Links FAR and SAR environmental standards related to green procurement." Source: "FAR.1.2.1.2.1.1.1" Target: "SAR.CA.3.2.1.1.1.1.1" UnifiedID: "SW-FAR-SAR-ENV-001" OriginalNumber: "" SAMName: "FAR-SAR Environmental Cross-Reference" - NodeID: "SW-FAR-SFAR-LOCAL-001" Description: "Links FAR and SFAR local business preference policies." Source: "FAR.1.3.1.2.1.1.1" Target: "SFAR.SF.4.2.1.1.1.1.1" UnifiedID: "SW-FAR-SFAR-LOCAL-001" OriginalNumber: "" SAMName: "FAR-SFAR Local Business Preference Cross-Reference" Octopus_Nodes: - NodeID: "ON-SBA-001" Description: "Overarching node for Small Business Administration (SBA) regulations" Source: "SBA Regulations" References: - "FAR.1.1.1.1.1.1.1" - "DFARS.2.1.2.1.1.1.1" - "SAR.CA.1.2.3.4" UnifiedID: "ON-SBA-001" OriginalNumber: "" SAMName: "SBA Regulatory Compliance" - NodeID: "ON-ENV-001" Description: "Overarching node for all environmental regulations (EPA)" Source: "EPA Regulations" References: - "FAR.1.2.1.2.1.1.1" - "DFARS.2.1.1.2.1.1.1" - "SAR.NY.1.2.3.4" UnifiedID: "ON-ENV-001" OriginalNumber: "" SAMName: "EPA Regulatory Compliance" - NodeID: "ON-CAL-GOV-001" Description: "Overarching node for California State Government procurement guidelines" Source: "California Department of General Services (DGS) Procurement Guidelines" References: - "SAR.CA.1.1.1.1.1.1" - "SAR.CA.3.2.1.1.1.1.1" - "SAR.CA.3.1.1.1.1.1.1" UnifiedID: "ON-CAL-GOV-001" OriginalNumber: "" SAMName: "California State Procurement Compliance" - NodeID: "ON-SF-GOV-001" Description: "Overarching node for City of San Francisco procurement policies" Source: "San Francisco Office of Contract Administration (OCA) Policies" References: - "SFAR.SF.1.1.1.1.1" - "SFAR.SF.4.2.1.1.1.1.1" - "SFAR.SF.4.1.1.1.1.1.1" UnifiedID: "ON-SF-GOV-001" OriginalNumber: ""
SAMName: "San Francisco City Procurement Compliance" Honeycomb_Nodes: - NodeID: "HC-FAR-DFAR-001" Description: "Honeycomb node linking FAR and DFARS for cybersecurity requirements" Source: "FAR.1.2.1.1.1.1.1" Target: "DFARS.2.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-DFAR-001" OriginalNumber: "" SAMName: "FAR-DFAR Cybersecurity Cross-Reference" - NodeID: "HC-FAR-DFAR-PRO-001" Description: "Honeycomb node linking FAR and DFARS for procurement process." Source: "FAR.1.3.1.1.1.1.1" Target: "DFARS.2.3.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-DFAR-PRO-001" OriginalNumber: "" SAMName: "FAR-DFAR Procurement Process Cross-Reference" - NodeID: "HC-FAR-SAR-001" Description: "Honeycomb node linking FAR and state regulations (example SAR - State of California)" Source: "FAR.1.3.1.1.1.1.1" Target: "SAR.CA.1.3.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SAR-001" OriginalNumber: "" SAMName: "FAR-SAR Procurement Process Cross-Reference" - NodeID: "HC-FAR-SAR-SUST-001" Description: "Honeycomb node linking FAR and SAR for sustainability requirements." Source: "FAR.1.2.1.2.1.1.1" Target: "SAR.CA.3.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SAR-SUST-001" OriginalNumber: "" SAMName: "FAR-SAR Sustainability Cross-Reference" - NodeID: "HC-FAR-SFAR-LOCAL-001" Description: "Honeycomb node linking FAR and SFAR for local business preference." Source: "FAR.1.3.1.2.1.1.1" Target: "SFAR.SF.4.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SFAR-LOCAL-001" OriginalNumber: "" SAMName: "FAR-SFAR Local Preference Cross-Reference" # Add more pillars for other states or local procurement Pillars: #Adding New York State Example - PillarID: "5" PillarName: "State of New York Acquisition Regulation (NYAR)" UnifiedID: "NYAR.NY" OriginalNumber: "NYAR-NY" SAMName: "State of New York Acquisition Regulation" OwnerAgency: "New York State Office of General Services (OGS)" EffectiveDate: "2023-01-01" ExpirationDate: "2026-12-31" Description: "Procurement regulations for the State of New York." BaseLevel: BaseLevelID: "NYAR-NY-Base" BaseLevelName: "NYAR Parts" Branches: - MegaBranchID: "NYAR-NY-Part-1" MegaBranchName: "NYAR Part 1 - General Provisions" UnifiedID: "NYAR.NY.1" OriginalNumber: "1" SAMName: "NYAR Part 1 - General Provisions" Description: "General guidelines for New York State procurement." LargeBranches: - LargeBranchID: "NYAR-NY-Part-1.1" LargeBranchName: "NYAR Subpart 1.1 - Introduction and Definitions" UnifiedID: "NYAR.NY.1.1" OriginalNumber: "1.1" SAMName: "NYAR Subpart 1.1 - Introduction and Definitions" Description: "Introduces the New York State procurement regulations." MediumBranches: - MediumBranchID: "NYAR-NY-Part-1.1.1" MediumBranchName: "NYAR Section 1.101 - Purpose" UnifiedID: "NYAR.NY.1.1.1" OriginalNumber: "1.101" SAMName: "NYAR Section 1.101 - Purpose" Description: "Defines the purpose and objective of New York procurement rules." SmallBranches: - SmallBranchID: "NYAR-NY-Part-1.1.1.1" SmallBranchName: "NYAR Clause 1.101(a) - Legislative Intent" UnifiedID: "NYAR.NY.1.1.1.1" OriginalNumber: "1.101(a)" SAMName: "NYAR Clause 1.101(a) - Legislative Intent" Description: "Legislative intent of the New York State procurement system." Nodes: - NodeID: "NYAR-NY-Part-1.1.1.1.1" NodeName: "Purpose of the NYAR System" UnifiedID: "NYAR.NY.1.1.1.1.1" OriginalNumber: "1.101(a)" SAMName: "Purpose of the NYAR System" Description: "Establishes the basis and intent of New York's procurement regulations." RegulatoryReference: "NYAR

1.101(a)" Roles: - RoleID: "N1" RoleName: "State Procurement Policy Analyst (NY)" LevelOfExpertise: "Senior-Level" Education: - "Master's degree in Public Policy, Law, or related field" Certifications: - "Certified Public Procurement Officer (CPPO)" KeySkills: - "Policy analysis and state regulation" - "Legislative research specific to New York" - "Communication and stakeholder management" JobDescription: "Advises on New York State procurement policy, ensures regulatory compliance, and supports rulemaking. Key figure in planning state acquisitions." TrainingResources: [] # ... (Continue with other NYAR Parts, Subparts, Sections, and Clauses) TreeLevels: - LevelID: "5.1" LevelName: "Sectors of Industry (NYAR)" UnifiedID: "NYAR.NY.5.1" OriginalNumber: "" SAMName: "Sectors of Industry (NYAR)" Description: "Mapping of NYAR regulations to various industry sectors in New York." Branches: - MegaBranchID: "NYAR-NY.5.1.1" MegaBranchName: "Infrastructure and Public Works (NY)" UnifiedID: "NYAR.NY.5.1.1" OriginalNumber:

"" SAMName: "Infrastructure and Public Works (NY)" AssociatedCodes: - NAICS: "23" - SIC: "1500-1799" - NIC: "410" - PSC: "Y1" LargeBranches: - LargeBranchID: "NYAR-NY.5.1.1.1" LargeBranchName: "Bridge and Road Construction (NY)" UnifiedID: "NYAR.NY.5.1.1.1" OriginalNumber: "" SAMName: "Bridge and Road Construction (NY)" AssociatedCodes: - NAICS: "237310" - SIC: "1611" - NIC: "4103" - PSC: "Y1FA" MediumBranches: - MediumBranchID: "NYAR-NY.5.1.1.1.1" MediumBranchName: "Bridge Maintenance (NY)" UnifiedID: "NYAR.NY.5.1.1.1.1" OriginalNumber: "" SAMName: "Bridge Maintenance (NY)" AssociatedCodes: - NAICS: "237310" - SIC: "161101" - NIC: "410301" - PSC: "Y1FAB" SmallBranches: - SmallBranchID: "NYAR-NY.5.1.1.1.1.1" SmallBranchName: "Bridge Inspection Standards (NY)" UnifiedID: "NYAR.NY.5.1.1.1.1.1" OriginalNumber: "" SAMName: "Bridge Inspection Standards (NY)" AssociatedCodes: - NAICS: "237310" - SIC: "161101" - NIC: "410301" - PSC: "Y1FAB" Nodes: - NodeID: "NYAR-NY.5.1.1.1.1.1.1" NodeName: "New York State Bridge Inspection Requirements" UnifiedID: "NYAR.NY.5.1.1.1.1.1.1" OriginalNumber: "" SAMName: "New York State Bridge Inspection Requirements" Description: "Specific requirements for bridge inspections as set by New York State DOT." RegulatoryReference: "NYSDOT Bridge Inspection Manual" Roles: - RoleID: "BIE" RoleName: "Bridge Inspection Engineer (NY)" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Conduct bridge inspections as per New York State regulations." - "Ensure compliance with NYSDOT guidelines." Education: - "Bachelor's Degree in Civil Engineering or Structural Engineering" - "Master's Degree in Structural Engineering (Optional)" Certifications: - "Professional Engineer (PE) License in New York" - "Certified Bridge Inspector" JobTraining: - "On-the-job training in bridge inspection and reporting." - "Advanced training in NYSDOT inspection procedures." AssociatedCodes: - NAICS: "237310" - SIC: "161101" - NIC: "410301" - PSC: "Y1FAB" # ... (Add more sectors for State of New York) - LevelID: "5.2" LevelName: "State Register (NYAR)" UnifiedID: "NYAR.NY.5.2" OriginalNumber: "" SAMName: "State Register (NYAR)" Description: "Entries from the New York State Register impacting NYAR regulations." Branches: - MegaBranchID: "NYAR-NY.5.2.1" MegaBranchName: "NYAR State Register Updates" UnifiedID: "NYAR.NY.5.2.1" OriginalNumber: "" SAMName: "NYAR State Register Updates" LargeBranches: - LargeBranchID: "NYAR-NY.5.2.1.1" LargeBranchName: "New York Procurement Amendments" UnifiedID: "NYAR.NY.5.2.1.1" OriginalNumber: "" SAMName: "New York Procurement Amendments (NYAR)" MediumBranches: - MediumBranchID: "NYAR-NY.5.2.1.1.1" MediumBranchName: "Proposed Rule on MWBE Participation" UnifiedID: "NYAR.NY.5.2.1.1.1" OriginalNumber: "" SAMName: "Proposed Rule on MWBE Participation (NYAR)" SmallBranches: - SmallBranchID: "NYAR-NY.5.2.1.1.1.1" SmallBranchName: "Minority and Women-Owned Business Requirements" UnifiedID: "NYAR.NY.5.2.1.1.1.1" OriginalNumber: "" SAMName: "Minority and Women-Owned Business Requirements (NYAR)" Nodes: - NodeID: "NYAR-NY.5.2.1.1.1.1.1" NodeName: "NY State MWBE Participation Guidelines" UnifiedID: "NYAR.NY.5.2.1.1.1.1.1" OriginalNumber: "NY-StateReg-2023-003" SAMName: "NY State MWBE Participation Guidelines (NYAR)" Description: "Guidelines for increasing MWBE participation in state procurement." RegulatoryReference: "NY State Register 2023, Notice 003" PublicationDate: "2023-06-05" Status: "Proposed" Roles: - RoleID: "MBE" RoleName: "State MWBE Program Analyst (NY)" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Review proposed MWBE participation guidelines for state alignment." - "Support businesses seeking MWBE certification and procurement opportunities." Education: - "Bachelor's Degree in Business Administration, Public Administration, or related field" - "Master's Degree in Public Policy (Optional)" Certifications: - "Certified MWBE Program Specialist." - "Public Sector Procurement Certification." JobTraining: - "Training in MWBE program management." - "On-the-job training in state compliance." AssociatedCodes: - NAICS: "541611" - PSC: "R4" - SIC: "8742" - NIC: "740" # ... (Add more State Register details) - LevelID: "5.3" LevelName: "Acquisition Life Cycle (NYAR)" UnifiedID: "NYAR.NY.5.3" OriginalNumber: "" SAMName: "Acquisition Life Cycle (NYAR)" Description: "Phases of the acquisition process specific to New York State." Branches: - MegaBranchID: "NYAR-NY.5.3.1" MegaBranchName: "Pre-Award Phase (NYAR)" UnifiedID: "NYAR.NY.5.3.1" OriginalNumber: "" SAMName: "Pre-Award Phase (NYAR)" # ... (Large,

Medium, and Small Branches with Nodes for NYAR Pre-Award Phase) - MegaBranchID: "NYAR-NY.5.3.2" MegaBranchName: "Award Phase (NYAR)" UnifiedID: "NYAR.NY.5.3.2" OriginalNumber: "" SAMName: "Award Phase (NYAR)" # ... (Large, Medium, and Small Branches with Nodes for NYAR Award Phase) - MegaBranchID: "NYAR-NY.5.3.3" MegaBranchName: "Post-Award Phase (NYAR)" UnifiedID: "NYAR.NY.5.3.3" OriginalNumber: "" SAMName: "Post-Award Phase (NYAR)" # ... (Large, Medium, and Small Branches with Nodes for NYAR Post-Award Phase) - LevelID: "5.4" LevelName: "Legislative Branches (NYAR)" UnifiedID: "NYAR.NY.5.4" OriginalNumber: "" SAMName: "Legislative Branches (NYAR)" Description: "Legislative acts, bills, and laws impacting NYAR regulations." Branches: - MegaBranchID: "NYAR-NY.5.4.1" MegaBranchName: "State Legislative Acts (NYAR)" UnifiedID: "NYAR.NY.5.4.1" OriginalNumber: "" SAMName: "State Legislative Acts (NYAR)" # ... (Large, Medium, and Small Branches with Nodes for NYAR State Legislative Acts) - MegaBranchID: "NYAR-NY.5.4.2" MegaBranchName: "Executive Orders (NYAR)" UnifiedID: "NYAR.NY.5.4.2" OriginalNumber: "" SAMName: "Executive Orders (NYAR)" # ... (Large, Medium, and Small Branches with Nodes for NYAR Executive Orders) - LevelID: "NYAR.NY.5.5" LevelName: "NYAR Catch-All" UnifiedID: "NYAR.NY.5.5" OriginalNumber: "" SAMName: "NYAR Catch-All" Description: "NYAR parts and clauses not covered in other sections." Branches: - MegaBranchID: "NYAR-NY.5.5.1" MegaBranchName: "Uncategorized NYAR Parts" UnifiedID: "NYAR.NY.5.5.1" OriginalNumber: "" SAMName: "Uncategorized NYAR Parts" # ... (Large, Medium, and Small Branches with Nodes for uncategorized NYAR parts) SpiderWeb_Nodes: - NodeID: "SW-FAR-DFARS-ENV-001" Description: "Links FAR and DFARS environmental standards to EPA regulations" Source: "FAR.1.1.1.1.1.1.1" Target: "DFARS.2.1.2.1.1.1.1" UnifiedID: "SW-FAR-DFARS-ENV-001" OriginalNumber: "" SAMName: "Environmental Standards Cross-Reference" - NodeID: "SW-FAR-DFARS-CYB-001" Description: "Links FAR and DFARS cybersecurity standards." Source: "FAR.1.2.1.1.1.1.1" Target: "DFARS.2.2.1.1.1.1.1" UnifiedID: "SW-FAR-DFARS-CYB-001" OriginalNumber: "" SAMName: "Cybersecurity Standards Cross-Reference" - NodeID: "SW-FAR-SAR-ENV-001" Description: "Links FAR and SAR environmental standards related to green procurement." Source: "FAR.1.2.1.2.1.1.1" Target: "SAR.CA.3.2.1.1.1.1.1" UnifiedID: "SW-FAR-SAR-ENV-001" OriginalNumber: "" SAMName: "FAR-SAR Environmental Cross-Reference" - NodeID: "SW-FAR-SFAR-LOCAL-001" Description: "Links FAR and SFAR local business preference policies." Source: "FAR.1.3.1.2.1.1.1" Target: "SFAR.SF.4.2.1.1.1.1.1" UnifiedID: "SW-FAR-SFAR-LOCAL-001" OriginalNumber: "" SAMName: "FAR-SFAR Local Business Preference Cross-Reference" - NodeID: "SW-FAR-NYAR-MWBE-001" Description: "Links FAR and NYAR minority and women-owned business enterprise policies." Source: "FAR.1.3.1.2.1.1.1" # Example; may need a different FAR point Target: "NYAR.NY.5.2.1.1.1.1.1" UnifiedID: "SW-FAR-NYAR-MWBE-001" OriginalNumber: "" SAMName: "FAR-NYAR MWBE Cross-Reference" Octopus_Nodes: - NodeID: "ON-SBA-001" Description: "Overarching node for Small Business Administration (SBA) regulations" Source: "SBA Regulations" References: - "FAR.1.1.1.1.1.1.1" - "DFARS.2.1.2.1.1.1.1" - "SAR.CA.1.2.3.4" UnifiedID: "ON-SBA-001" OriginalNumber: "" SAMName: "SBA Regulatory Compliance" - NodeID: "ON-ENV-001" Description: "Overarching node for all environmental regulations (EPA)" Source: "EPA Regulations" References: - "FAR.1.2.1.2.1.1.1" - "DFARS.2.1.1.2.1.1.1" - "SAR.NY.1.2.3.4" UnifiedID: "ON-ENV-001" OriginalNumber: "" SAMName: "EPA Regulatory Compliance" - NodeID: "ON-CAL-GOV-001" Description: "Overarching node for California State Government procurement guidelines" Source: "California Department of General Services (DGS) Procurement Guidelines" References: - "SAR.CA.1.1.1.1.1" - "SAR.CA.3.2.1.1.1.1.1" - "SAR.CA.3.1.1.1.1.1.1" UnifiedID: "ON-CAL-GOV-001" OriginalNumber: "" SAMName: "California State Procurement Compliance" - NodeID: "ON-SF-GOV-001" Description: "Overarching node for City of San Francisco procurement policies" Source: "San Francisco Office of Contract Administration (OCA) Policies" References: - "SFAR.SF.1.1.1.1.1" - "SFAR.SF.4.2.1.1.1.1.1" - "SFAR.SF.4.1.1.1.1.1.1" UnifiedID: "ON-SF-GOV-001" OriginalNumber: "" SAMName: "San Francisco City Procurement Compliance" - NodeID: "ON-NY-GOV-001" Description: "Overarching node for New York State procurement policies" Source: "New York State Office of General Services (OGS) Guidelines" References: - "NYAR.NY.1.1.1.1.1" - "NYAR.NY.5.2.1.1.1.1.1" - "NYAR.NY.5.1.1.1.1.1.1" UnifiedID: "ON-NY-GOV-001" OriginalNumber: "" SAMName: "New York State Procurement Compliance" Honeycomb_Nodes: - NodeID: "HC-FAR-DFAR-001" Description: "Honeycomb node linking FAR and DFARS for cybersecurity requirements" Source: "FAR.1.2.1.1.1.1.1" Target: "DFARS.2.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-DFAR-001" OriginalNumber: "" SAMName: "FAR-DFAR Cybersecurity Cross-Reference" - NodeID: "HC-FAR-DFAR-PRO-001" Description: "Honeycomb node linking FAR and DFARS for procurement process." Source: "FAR.1.3.1.1.1.1.1" Target: "DFARS.2.3.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-DFAR-PRO-001" OriginalNumber: "" SAMName: "FAR-DFAR Procurement Process Cross-Reference" - NodeID: "HC-FAR-SAR-001" Description: "Honeycomb node linking FAR and state regulations (example SAR - State of California)" Source: "FAR.1.3.1.1.1.1.1"

Target: "SAR.CA.1.3.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SAR-001" OriginalNumber: "" SAMName: "FAR-SAR Procurement Process Cross-Reference" - NodeID: "HC-FAR-SAR-SUST-001" Description: "Honeycomb node linking FAR and SAR for sustainability requirements." Source: "FAR.1.2.1.2.1.1.1" Target: "SAR.CA.3.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SAR-SUST-001" OriginalNumber: "" SAMName: "FAR-SAR Sustainability Cross-Reference" - NodeID: "HC-FAR-SFAR-LOCAL-001" Description: "Honeycomb node linking FAR and SFAR for local business preference." Source: "FAR.1.3.1.2.1.1.1" Target: "SFAR.SF.4.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SFAR-LOCAL-001" OriginalNumber: "" SAMName: "FAR-SFAR Local Preference Cross-Reference" - NodeID: "HC-FAR-NYAR-MWBE-001" Description: "Honeycomb node linking FAR and NYAR for minority and women-owned business enterprise." Source: "FAR.1.3.1.2.1.1.1" # Example; may need a different FAR point Target: "NYAR.NY.5.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-NYAR-MWBE-001" OriginalNumber: "" SAMName: "FAR-NYAR MWBE Cross-Reference" # Add more pillars for other states or local procurement Pillars: #Adding City of Chicago Example - PillarID: "6" PillarName: "City of Chicago Procurement Regulation (CPAR)" UnifiedID: "CPAR.CH" OriginalNumber: "CPAR-CH" SAMName: "City of Chicago Procurement Regulation" OwnerAgency: "City of Chicago Department of Procurement Services (DPS)" EffectiveDate: "2023-01-01" ExpirationDate: "2026-12-31" Description: "Procurement regulations for the City of Chicago." BaseLevel: BaseLevelID: "CPAR-CH-Base" BaseLevelName: "CPAR Parts" Branches: - MegaBranchID: "CPAR-CH-Part-1" MegaBranchName: "CPAR Part 1 - General Provisions" UnifiedID: "CPAR.CH.1" OriginalNumber: "1" SAMName: "CPAR Part 1 - General Provisions" Description: "Overview of Chicago's procurement rules and policies." LargeBranches: - LargeBranchID: "CPAR-CH-Part-1.1" LargeBranchName: "CPAR Subpart 1.1 - Introduction and Scope" UnifiedID: "CPAR.CH.1.1" OriginalNumber: "1.1" SAMName: "CPAR Subpart 1.1 - Introduction and Scope" Description: "Introduces the scope and application of Chicago's procurement rules." MediumBranches: - MediumBranchID: "CPAR-CH-Part-1.1.1" MediumBranchName: "CPAR Section 1.101 - Purpose and Authority" UnifiedID: "CPAR.CH.1.1.1" OriginalNumber: "1.101" SAMName: "CPAR Section 1.101 - Purpose and Authority" Description: "Defines the objectives and legal authority for Chicago's procurement." SmallBranches: - SmallBranchID: "CPAR-CH-Part-1.1.1.1" SmallBranchName: "CPAR Clause 1.101(a) - Policy Statement" UnifiedID: "CPAR.CH.1.1.1.1" OriginalNumber: "1.101(a)" SAMName: "CPAR Clause 1.101(a) - Policy Statement" Description: "Sets forth the policy goals of the Chicago procurement system." Nodes: - NodeID: "CPAR-CH-Part-1.1.1.1.1" NodeName: "Purpose of the CPAR System" UnifiedID: "CPAR.CH.1.1.1.1.1" OriginalNumber: "1.101(a)" SAMName: "Purpose of the CPAR System" Description: "Establishes the foundation and objectives of Chicago's procurement framework." RegulatoryReference: "CPAR 1.101(a)" Roles: - RoleID: "CG1" RoleName: "City Procurement Policy Analyst (Chicago)" LevelOfExpertise: "Senior-Level" Education: - "Master's degree in Public Policy, Public Administration, or related field" Certifications: - "Certified Professional Public Buyer (CPPB)" KeySkills: - "Municipal procurement policy development" - "Local government legislative and regulatory research" - "Communication and engagement with local stakeholders" JobDescription: "Advises on Chicago procurement policies, ensuring compliance with local laws and supporting the rule making. Engages with city officials and vendors." TrainingResources: [] # ... (Continue with other CPAR Parts, Subparts, Sections, and Clauses) TreeLevels: - LevelID: "6.1" LevelName: "Sectors of Industry (CPAR)" UnifiedID: "CPAR.CH.6.1" OriginalNumber: "" SAMName: "Sectors of Industry (CPAR)" Description: "Mapping of CPAR regulations to various industry sectors in Chicago." Branches: - MegaBranchID: "CPAR-CH.6.1.1" MegaBranchName: "City Infrastructure Projects (Chicago)" UnifiedID: "CPAR.CH.6.1.1" OriginalNumber: "" SAMName: "City Infrastructure Projects (Chicago)" AssociatedCodes: - NAICS: "237" - SIC: "1600-1629" - NIC: "4103" - PSC: "Y1F" LargeBranches: - LargeBranchID: "CPAR-CH.6.1.1.1" LargeBranchName: "Public Transportation Infrastructure (Chicago)" UnifiedID: "CPAR.CH.6.1.1.1" OriginalNumber: "" SAMName: "Public Transportation Infrastructure (Chicago)" AssociatedCodes: - NAICS: "4851" - SIC: "4111-4119" - NIC: "4141" - PSC: "V1TA" MediumBranches: - MediumBranchID: "CPAR-CH.6.1.1.1.1" MediumBranchName: "Transit System Maintenance (Chicago)" UnifiedID: "CPAR.CH.6.1.1.1.1" OriginalNumber: "" SAMName: "Transit System Maintenance (Chicago)" AssociatedCodes: - NAICS: "488119" - SIC: "4111" - NIC: "4141" - PSC: "V1TA01" SmallBranches: - SmallBranchID: "CPAR-CH.6.1.1.1.1.1" SmallBranchName: "Rail System Standards (Chicago)" UnifiedID: "CPAR.CH.6.1.1.1.1.1" OriginalNumber: "" SAMName: "Rail System Standards (Chicago)" AssociatedCodes: - NAICS: "488119" - SIC: "411101" - NIC: "414101" - PSC: "V1TA01R" Nodes: - NodeID: "CPAR-CH.6.1.1.1.1.1.1" NodeName: "Chicago Rail System Maintenance Specifications" UnifiedID: "CPAR.CH.6.1.1.1.1.1.1" OriginalNumber: "" SAMName: "Chicago Rail System Maintenance Specifications" Description: "Specific maintenance standards for Chicago's rail transit system." RegulatoryReference: "CTA Rail System Maintenance Manual" Roles: - RoleID: "CTM" RoleName: "Transit System Maintenance Engineer (Chicago)" LevelOfExpertise: "Mid-Level to Senior" Subparts: JobTasks: - "Ensure compliance with city rail system maintenance standards." - "Oversee

maintenance and upgrades to rail transit infrastructure." Education: - "Bachelor's Degree in Civil or Mechanical Engineering" - "Master's Degree in Transportation Systems (Optional)" Certifications: - "Certified Transit Engineer (CTE)" - "Municipal Infrastructure Specialist" JobTraining: - "On-the-job training in rail system inspection and maintenance." - "Advanced training in CTA standards and guidelines." AssociatedCodes: - NAICS: "488119" - SIC: "411101" - NIC: "414101" - PSC: "V1TA01R" # ... Add more sectors for City of Chicago - LevelID: "6.2" LevelName: "City Register (CPAR)" UnifiedID: "CPAR.CH.6.2" OriginalNumber: "" SAMName: "City Register (CPAR)" Description: "Entries from the Chicago City Register impacting CPAR regulations." Branches: - MegaBranchID: "CPAR-CH.6.2.1" MegaBranchName: "CPAR City Register Updates" UnifiedID: "CPAR.CH.6.2.1" OriginalNumber: "" SAMName: "CPAR City Register Updates" LargeBranches: - LargeBranchID: "CPAR-CH.6.2.1.1" LargeBranchName: "Chicago Procurement Amendments" UnifiedID: "CPAR.CH.6.2.1.1" OriginalNumber: "" SAMName: "Chicago Procurement Amendments (CPAR)" MediumBranches: - MediumBranchID: "CPAR-CH.6.2.1.1.1" MediumBranchName: "Proposed Rule on Equitable Procurement" UnifiedID: "CPAR.CH.6.2.1.1.1" OriginalNumber: "" SAMName: "Proposed Rule on Equitable Procurement (CPAR)" SmallBranches: - SmallBranchID: "CPAR-CH.6.2.1.1.1.1" SmallBranchName: "Equity in Contracting Requirements" UnifiedID: "CPAR.CH.6.2.1.1.1.1" OriginalNumber: "" SAMName: "Equity in Contracting Requirements (CPAR)" Nodes: - NodeID: "CPAR-CH.6.2.1.1.1.1.1" NodeName: "Chicago Equitable Contracting Guidelines" UnifiedID: "CPAR.CH.6.2.1.1.1.1.1" OriginalNumber: "CH-CityReg-2023-004" SAMName: "Chicago Equitable Contracting Guidelines" Description: "Guidelines for promoting equitable opportunities in Chicago procurement." RegulatoryReference: "Chicago City Register 2023, Notice 004" PublicationDate: "2023-07-10" Status: "Proposed" Roles: - RoleID: "CEP" RoleName: "City Equitable Procurement Specialist (Chicago)" LevelOfExpertise: "Mid-Level" Subparts: JobTasks: - "Evaluate and implement equitable procurement policies." - "Support vendors in navigating Chicago's procurement system." Education: - "Bachelor's Degree in Business, Public Administration, or Social Sciences." Certifications: - "Certified Equity and Inclusion Specialist." - "Municipal Procurement Certification."
JobTraining: - "Training in equitable procurement practices." - "Experience with local government compliance." AssociatedCodes: - NAICS: "541611" - PSC: "R4" - SIC: "8742" - NIC: "74" # ... (Add more city register details for Chicago) - LevelID: "6.3" LevelName: "Acquisition Life Cycle (CPAR)" UnifiedID: "CPAR.CH.6.3" OriginalNumber: "" SAMName: "Acquisition Life Cycle (CPAR)" Description: "Phases of the acquisition process specific to the City of Chicago." Branches: - MegaBranchID: "CPAR-CH.6.3.1" MegaBranchName: "Pre-Award Phase (CPAR)" UnifiedID: "CPAR.CH.6.3.1" OriginalNumber: "" SAMName: "Pre-Award Phase (CPAR)" # ... (Large, Medium, and Small Branches with Nodes for CPAR Pre-Award Phase) - MegaBranchID: "CPAR-CH.6.3.2" MegaBranchName: "Award Phase (CPAR)" UnifiedID: "CPAR.CH.6.3.2" OriginalNumber: "" SAMName: "Award Phase (CPAR)" # ... (Large, Medium, and Small Branches with Nodes for CPAR Award Phase) - MegaBranchID: "CPAR-CH.6.3.3" MegaBranchName: "Post-Award Phase (CPAR)" UnifiedID: "CPAR.CH.6.3.3" OriginalNumber: "" SAMName: "Post-Award Phase (CPAR)" # ... (Large, Medium, and Small Branches with Nodes for CPAR Post-Award Phase) - LevelID: "6.4" LevelName: "Legislative Branches (CPAR)" UnifiedID: "CPAR.CH.6.4" OriginalNumber: "" SAMName: "Legislative Branches (CPAR)" Description: "Legislative acts, bills, and laws affecting CPAR regulations." Branches: - MegaBranchID: "CPAR-CH.6.4.1" MegaBranchName: "City Ordinances (CPAR)" UnifiedID: "CPAR.CH.6.4.1" OriginalNumber: "" SAMName: "City Ordinances (CPAR)" # ... (Large, Medium, and Small Branches with Nodes for CPAR City Ordinances) - MegaBranchID: "CPAR-CH.6.4.2" MegaBranchName: "Executive Orders (CPAR)" UnifiedID: "CPAR.CH.6.4.2" OriginalNumber: "" SAMName: "Executive Orders (CPAR)" # ... (Large, Medium, and Small Branches with Nodes for CPAR Executive Orders) - LevelID: "CPAR.CH.6.5" LevelName: "CPAR Catch-All" UnifiedID: "CPAR.CH.6.5" OriginalNumber: "" SAMName: "CPAR Catch-All" Description: "CPAR parts and clauses not covered in other sections." Branches: - MegaBranchID: "CPAR-CH.6.5.1" MegaBranchName: "Uncategorized CPAR Parts" UnifiedID: "CPAR.CH.6.5.1" OriginalNumber: "" SAMName: "Uncategorized CPAR Parts" # ... (Large, Medium, and Small Branches with Nodes for uncategorized CPAR parts) SpiderWeb_Nodes: - NodeID: "SW-FAR-DFARS-ENV-001" Description: "Links FAR and DFARS environmental standards to EPA regulations" Source: "FAR.1.1.1.1.1.1.1" Target: "DFARS.2.1.2.1.1.1.1" UnifiedID: "SW-FAR-DFARS-ENV-001" OriginalNumber: "" SAMName: "Environmental Standards Cross-Reference" - NodeID: "SW-FAR-DFARS-CYB-001" Description: "Links FAR and DFARS cybersecurity standards." Source: "FAR.1.2.1.1.1.1.1" Target: "DFARS.2.2.1.1.1.1.1" UnifiedID: "SW-FAR-DFARS-CYB-001" OriginalNumber: "" SAMName: "Cybersecurity Standards Cross-Reference" - NodeID: "SW-FAR-SAR-ENV-001" Description: "Links FAR and SAR environmental standards related to green procurement." Source: "FAR.1.2.1.2.1.1.1" Target: "SAR.CA.3.2.1.1.1.1.1" UnifiedID: "SW-FAR-SAR-ENV-001" OriginalNumber: "" SAMName: "FAR-SAR Environmental Cross-Reference" - NodeID: "SW-FAR-SFAR-LOCAL-001" Description: "Links FAR and SFAR local business preference policies." Source: "FAR.1.3.1.2.1.1.1" Target:

"SFAR.SF.4.2.1.1.1.1.1" UnifiedID: "SW-FAR-SFAR-LOCAL-001" OriginalNumber: "" SAMName: "FAR-SFAR Local Business Preference Cross-Reference" - NodeID: "SW-FAR-NYAR-MWBE-001" Description: "Links FAR and NYAR minority and women-owned business enterprise policies." Source: "FAR.1.3.1.2.1.1.1" Target: "NYAR.NY.5.2.1.1.1.1.1" UnifiedID: "SW-FAR-NYAR-MWBE-001" OriginalNumber: "" SAMName: "FAR-NYAR MWBE Cross-Reference" - NodeID: "SW-FAR-CPAR-EQ-001" Description: "Links FAR and CPAR equitable procurement guidelines." Source: "FAR.1.3.1.2.1.1.1" #Example, may need a different FAR point Target: "CPAR.CH.6.2.1.1.1.1.1" UnifiedID: "SW-FAR-CPAR-EQ-001" OriginalNumber: "" SAMName: "FAR-CPAR Equitable Procurement Cross-Reference" Octopus_Nodes: - NodeID: "ON-SBA-001" Description: "Overarching node for Small Business Administration (SBA) regulations" Source: "SBA Regulations" References: - "FAR.1.1.1.1.1.1.1" - "DFARS.2.1.2.1.1.1.1" - "SAR.CA.1.2.3.4" UnifiedID: "ON-SBA-001" OriginalNumber: "" SAMName: "SBA Regulatory Compliance" - NodeID: "ON-ENV-001" Description: "Overarching node for all environmental regulations (EPA)" Source: "EPA Regulations" References: - "FAR.1.2.1.2.1.1.1" - "DFARS.2.1.1.2.1.1.1" - "SAR.NY.1.2.3.4" UnifiedID: "ON-ENV-001" OriginalNumber: "" SAMName: "EPA Regulatory Compliance"
- NodeID: "ON-CAL-GOV-001" Description: "Overarching node for California State Government procurement guidelines" Source: "California Department of General Services (DGS) Procurement Guidelines" References: - "SAR.CA.1.1.1.1.1" - "SAR.CA.3.2.1.1.1.1.1" - "SAR.CA.3.1.1.1.1.1.1" UnifiedID: "ON-CAL-GOV-001" OriginalNumber: "" SAMName: "California State Procurement Compliance" - NodeID: "ON-SF-GOV-001" Description: "Overarching node for City of San Francisco procurement policies" Source: "San Francisco Office of Contract Administration (OCA) Policies" References: - "SFAR.SF.1.1.1.1.1" - "SFAR.SF.4.2.1.1.1.1.1" - "SFAR.SF.4.1.1.1.1.1.1" UnifiedID: "ON-SF-GOV-001" OriginalNumber: "" SAMName: "San Francisco City Procurement Compliance" - NodeID: "ON-NY-GOV-001" Description: "Overarching node for New York State procurement policies" Source: "New York State Office of General Services (OGS) Guidelines" References: - "NYAR.NY.1.1.1.1.1" - "NYAR.NY.5.2.1.1.1.1.1" - "NYAR.NY.5.1.1.1.1.1.1" UnifiedID: "ON-NY-GOV-001" OriginalNumber: "" SAMName: "New York State Procurement Compliance" - NodeID: "ON-CHI-GOV-001" Description: "Overarching node for City of Chicago procurement policies" Source: "City of Chicago Department of Procurement Services (DPS) Policies" References: - "CPAR.CH.1.1.1.1.1" - "CPAR.CH.6.2.1.1.1.1.1" - "CPAR.CH.6.1.1.1.1.1.1" UnifiedID: "ON-CHI-GOV-001" OriginalNumber: "" SAMName: "Chicago City Procurement Compliance" Honeycomb_Nodes: - NodeID: "HC-FAR-DFAR-001" Description: "Honeycomb node linking FAR and DFARS for cybersecurity requirements" Source: "FAR.1.2.1.1.1.1.1" Target: "DFARS.2.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-DFAR-001" OriginalNumber: "" SAMName: "FAR-DFAR Cybersecurity Cross-Reference" - NodeID: "HC-FAR-DFAR-PRO-001" Description: "Honeycomb node linking FAR and DFARS for procurement process." Source: "FAR.1.3.1.1.1.1.1" Target: "DFARS.2.3.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-DFAR-PRO-001" OriginalNumber: "" SAMName: "FAR-DFAR Procurement Process Cross-Reference" - NodeID: "HC-FAR-SAR-001" Description: "Honeycomb node linking FAR and state regulations (example SAR - State of California)" Source: "FAR.1.3.1.1.1.1.1" Target: "SAR.CA.1.3.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SAR-001" OriginalNumber: "" SAMName: "FAR-SAR Procurement Process Cross-Reference" - NodeID: "HC-FAR-SAR-SUST-001" Description: "Honeycomb node linking FAR and SAR for sustainability requirements." Source: "FAR.1.2.1.2.1.1.1" Target: "SAR.CA.3.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SAR-SUST-001" OriginalNumber: "" SAMName: "FAR-SAR Sustainability Cross-Reference" - NodeID: "HC-FAR-SFAR-LOCAL-001" Description: "Honeycomb node linking FAR and SFAR for local business preference." Source: "FAR.1.3.1.2.1.1.1" Target: "SFAR.SF.4.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SFAR-LOCAL-001" OriginalNumber: "" SAMName: "FAR-SFAR Local Preference Cross-Reference" - NodeID: "HC-FAR-NYAR-MWBE-001" Description: "Honeycomb node linking FAR and NYAR for minority and women-owned business enterprise." Source: "FAR.1.3.1.2.1.1.1" Target: "NYAR.NY.5.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-NYAR-MWBE-001" OriginalNumber: "" SAMName: "FAR-NYAR MWBE Cross-Reference" - NodeID: "HC-FAR-CPAR-EQ-001" Description: "Honeycomb node linking FAR and CPAR for equitable procurement." Source: "FAR.1.3.1.2.1.1.1" Target: "CPAR.CH.6.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-CPAR-EQ-001" OriginalNumber: "" SAMName: "FAR-CPAR Equitable Procurement Cross-Reference" # Add more pillars for other states or local procurement Pillars: #Adding a Sample County - Example is "Any County" - PillarID: "7" PillarName: "Any County Procurement Regulation (ACPR)" UnifiedID: "ACPR.AC" OriginalNumber: "ACPR-AC" SAMName: "Any County Procurement Regulation" OwnerAgency: "Any County Department of Purchasing" EffectiveDate: "2023-01-01" ExpirationDate: "2026-12-31" Description: "Procurement regulations for Any County (Example)." BaseLevel: BaseLevelID: "ACPR-AC-Base" BaseLevelName: "ACPR Parts" Branches: - MegaBranchID: "ACPR-AC-Part-1"

MegaBranchName: "ACPR Part 1 - General Provisions" UnifiedID: "ACPR.AC.1" OriginalNumber: "1" SAMName: "ACPR Part 1 - General Provisions" Description: "Basic rules and principles governing Any County's procurement activities." LargeBranches: - LargeBranchID: "ACPR-AC-Part-1.1" LargeBranchName: "ACPR Subpart 1.1 - Introduction and Applicability" UnifiedID: "ACPR.AC.1.1" OriginalNumber: "1.1" SAMName: "ACPR Subpart 1.1 - Introduction and Applicability" Description: "Introduction to the County's procurement code." MediumBranches: - MediumBranchID: "ACPR-AC-Part-1.1.1" MediumBranchName: "ACPR Section 1.101 - Purpose and Intent" UnifiedID: "ACPR.AC.1.1.1" OriginalNumber: "1.101" SAMName: "ACPR Section 1.101 - Purpose and Intent" Description: "Defines the goals of the Any County procurement system." SmallBranches: - SmallBranchID: "ACPR-AC-Part-1.1.1.1" SmallBranchName: "ACPR Clause 1.101(a) - County Policy" UnifiedID: "ACPR.AC.1.1.1.1" OriginalNumber: "1.101(a)" SAMName: "ACPR Clause 1.101(a) - County Policy" Description: "States the procurement policy of Any County." Nodes: - NodeID: "ACPR-AC-Part-1.1.1.1.1" NodeName: "Purpose of the ACPR System" UnifiedID: "ACPR.AC.1.1.1.1.1" OriginalNumber: "1.101(a)" SAMName: "Purpose of the ACPR System" Description: "Establishes the core purpose of the County's procurement process." RegulatoryReference: "ACPR 1.101(a)" Roles: - RoleID: "CO1" RoleName: "County Procurement Policy Analyst" LevelOfExpertise: "Mid-Level" Education: - "Bachelor's degree in Public Administration or Business Management" Certifications: - "Certified Local Government Purchasing Professional (CLGPP)" KeySkills: - "County procurement regulations" - "Local government compliance and auditing" - "Communication with county stakeholders" JobDescription: "Assists with developing and maintaining procurement policies, ensuring compliance within the County. Supports purchasing operations." TrainingResources: [] # ... (Continue with other ACPR Parts, Subparts, Sections, and Clauses) TreeLevels: - LevelID: "7.1" LevelName: "Sectors of Industry (ACPR)" UnifiedID: "ACPR.AC.7.1" OriginalNumber: "" SAMName: "Sectors of Industry (ACPR)" Description: "Mapping of ACPR regulations to industries in Any County." Branches: - MegaBranchID: "ACPR-AC.7.1.1" MegaBranchName: "County Facilities Maintenance" UnifiedID: "ACPR.AC.7.1.1" OriginalNumber: "" SAMName: "County Facilities Maintenance" AssociatedCodes: - NAICS: "561210" - SIC: "7349" - NIC: "739" - PSC: "S2" LargeBranches: - LargeBranchID: "ACPR-AC.7.1.1.1" LargeBranchName: "County Building Upkeep" UnifiedID: "ACPR.AC.7.1.1.1" OriginalNumber: "" SAMName: "County Building Upkeep" AssociatedCodes: - NAICS: "561210" - SIC: "7349" - NIC: "739" - PSC: "S201" MediumBranches: - MediumBranchID: "ACPR-AC.7.1.1.1.1" MediumBranchName: "HVAC System Maintenance" UnifiedID: "ACPR.AC.7.1.1.1.1" OriginalNumber: "" SAMName: "HVAC System Maintenance" AssociatedCodes: - NAICS: "238220" - SIC: "1711" - NIC: "43212" - PSC: "S201H" SmallBranches: - SmallBranchID: "ACPR-AC.7.1.1.1.1.1" SmallBranchName: "County HVAC Standards" UnifiedID: "ACPR.AC.7.1.1.1.1.1" OriginalNumber: "" SAMName: "County HVAC Standards" AssociatedCodes: - NAICS: "238220" - SIC: "1711" - NIC: "43212" - PSC: "S201H" Nodes: - NodeID: "ACPR-AC.7.1.1.1.1.1.1" NodeName: "Any County HVAC Maintenance Specifications" UnifiedID: "ACPR.AC.7.1.1.1.1.1.1" OriginalNumber: "" SAMName: "Any County HVAC Maintenance Specifications" Description: "Maintenance standards for HVAC systems in Any County facilities." RegulatoryReference: "Any County Facilities Maintenance Standards" Roles: - RoleID: "CHE" RoleName: "County HVAC Engineer" LevelOfExpertise: "Mid-Level" Subparts: JobTasks: - "Oversee maintenance of County HVAC systems." - "Ensure compliance with County maintenance standards." Education: - "Bachelor's Degree in Mechanical Engineering or related field" Certifications: - "Certified HVAC Technician" - "Local Government Facility Management Certification" JobTraining: - "Training in HVAC system maintenance and repairs." - "Experience in local government facility management." AssociatedCodes: - NAICS: "238220" - SIC: "1711" - NIC: "43212" - PSC: "S201H" # ... (Add more sectors for Any County) - LevelID: "7.2" LevelName: "County Register (ACPR)" UnifiedID: "ACPR.AC.7.2" OriginalNumber: "" SAMName: "County Register (ACPR)" Description: "Entries from the County Register affecting ACPR regulations." Branches: - MegaBranchID: "ACPR-AC.7.2.1" MegaBranchName: "ACPR County Register Updates" UnifiedID: "ACPR.AC.7.2.1" OriginalNumber: "" SAMName: "ACPR County Register Updates" LargeBranches: - LargeBranchID: "ACPR-AC.7.2.1.1" LargeBranchName: "Any County Procurement Amendments" UnifiedID: "ACPR.AC.7.2.1.1" OriginalNumber: "" SAMName: "Any County Procurement Amendments" MediumBranches: - MediumBranchID: "ACPR-AC.7.2.1.1.1" MediumBranchName: "Proposed Rule on Local Vendor Preference" UnifiedID: "ACPR.AC.7.2.1.1.1" OriginalNumber: "" SAMName: "Proposed Rule on Local Vendor Preference" SmallBranches: - SmallBranchID: "ACPR-AC.7.2.1.1.1.1" SmallBranchName: "Local Vendor Certification Requirements" UnifiedID: "ACPR.AC.7.2.1.1.1.1" OriginalNumber: "" SAMName: "Local Vendor Certification Requirements" Nodes: - NodeID: "ACPR-AC.7.2.1.1.1.1.1" NodeName: "Any County Local Vendor Preference Guidelines" UnifiedID: "ACPR.AC.7.2.1.1.1.1.1" OriginalNumber: "AC-CountyReg-2023-001" SAMName: "Any County Local Vendor Preference Guidelines" Description: "Establishes a local vendor preference in county

procurement." RegulatoryReference: "Any County Register 2023, Notice 001" PublicationDate: "2023-08-01" Status: "Proposed" Roles: - RoleID: "CVL" RoleName: "County Vendor Liaison" LevelOfExpertise: "Entry-Level" Subparts: JobTasks: - "Assist vendors with local preference certification." - "Ensure compliance with Any County requirements." Education: - "Associate's or Bachelor's Degree in Business Administration or related field" Certifications: - "Certified Local Vendor Specialist" JobTraining: - "On-the-job training in county vendor relations." - "Local procurement practices training." AssociatedCodes: - NAICS: "541611" - PSC: "R4" - SIC: "8742" - NIC: "740" - LevelID: "7.3" LevelName: "Acquisition Life Cycle (ACPR)" UnifiedID: "ACPR.AC.7.3" OriginalNumber: "" SAMName: "Acquisition Life Cycle (ACPR)" Description: "Phases of the acquisition process as defined by Any County." Branches: - MegaBranchID: "ACPR-AC.7.3.1" MegaBranchName: "Pre-Award Phase (ACPR)" UnifiedID: "ACPR.AC.7.3.1" OriginalNumber: "" SAMName: "Pre-Award Phase (ACPR)" # ... (Large, Medium, and Small Branches with Nodes for ACPR Pre-Award Phase) - MegaBranchID: "ACPR-AC.7.3.2" MegaBranchName: "Award Phase (ACPR)" UnifiedID: "ACPR.AC.7.3.2" OriginalNumber: "" SAMName: "Award Phase (ACPR)" # ... (Large, Medium, and Small Branches with Nodes for ACPR Award Phase) - MegaBranchID: "ACPR-AC.7.3.3" MegaBranchName: "Post-Award Phase (ACPR)" UnifiedID: "ACPR.AC.7.3.3" OriginalNumber: "" SAMName: "Post-Award Phase (ACPR)" # ... (Large, Medium, and Small Branches with Nodes for ACPR Post-Award Phase) - LevelID: "7.4" LevelName: "Legislative Branches (ACPR)" UnifiedID: "ACPR.AC.7.4" OriginalNumber: "" SAMName: "Legislative Branches (ACPR)" Description: "Legislative acts, bills, and laws impacting Any County regulations." Branches: - MegaBranchID: "ACPR-AC.7.4.1" MegaBranchName: "County Ordinances (ACPR)" UnifiedID: "ACPR.AC.7.4.1" OriginalNumber: "" SAMName: "County Ordinances (ACPR)" # ... (Large, Medium, and Small Branches with Nodes for ACPR County Ordinances) - MegaBranchID: "ACPR-AC.7.4.2" MegaBranchName: "Executive Orders (ACPR)" UnifiedID: "ACPR.AC.7.4.2" OriginalNumber: "" SAMName: "Executive Orders (ACPR)" # ... (Large, Medium, and Small Branches with Nodes for ACPR Executive Orders) - LevelID: "ACPR.AC.7.5" LevelName: "ACPR Catch-All" UnifiedID: "ACPR.AC.7.5" OriginalNumber: "" SAMName: "ACPR Catch-All" Description: "ACPR parts and clauses not covered in other sections." Branches: - MegaBranchID: "ACPR-AC.7.5.1" MegaBranchName: "Uncategorized ACPR Parts" UnifiedID: "ACPR.AC.7.5.1" OriginalNumber: "" SAMName: "Uncategorized ACPR Parts" # ... (Large, Medium, and Small Branches with Nodes for uncategorized ACPR parts) SpiderWeb_Nodes: - NodeID: "SW-FAR-DFARS-ENV-001" Description: "Links FAR and DFARS environmental standards to EPA regulations" Source: "FAR.1.1.1.1.1.1.1" Target: "DFARS.2.1.2.1.1.1.1" UnifiedID: "SW-FAR-DFARS-ENV-001" OriginalNumber: "" SAMName: "Environmental Standards Cross-Reference" - NodeID: "SW-FAR-DFARS-CYB-001" Description: "Links FAR and DFARS cybersecurity standards." Source: "FAR.1.2.1.1.1.1.1" Target: "DFARS.2.2.1.1.1.1.1" UnifiedID: "SW-FAR-DFARS-CYB-001" OriginalNumber: "" SAMName: "Cybersecurity Standards Cross-Reference" - NodeID: "SW-FAR-SAR-ENV-001" Description: "Links FAR and SAR environmental standards related to green procurement." Source: "FAR.1.2.1.2.1.1.1" Target: "SAR.CA.3.2.1.1.1.1.1" UnifiedID: "SW-FAR-SAR-ENV-001" OriginalNumber: "" SAMName: "FAR-SAR Environmental Cross-Reference" - NodeID: "SW-FAR-SFAR-LOCAL-001" Description: "Links FAR and SFAR local business preference policies." Source: "FAR.1.3.1.2.1.1.1" Target: "SFAR.SF.4.2.1.1.1.1.1" UnifiedID: "SW-FAR-SFAR-LOCAL-001" OriginalNumber: "" SAMName: "FAR-SFAR Local Business Preference Cross-Reference" - NodeID: "SW-FAR-NYAR-MWBE-001" Description: "Links FAR and NYAR minority and women-owned business

enterprise policies." Source: "FAR.1.3.1.2.1.1.1" Target: "NYAR.NY.5.2.1.1.1.1.1" UnifiedID: "SW-FAR-NYAR-MWBE-001" OriginalNumber: "" SAMName: "FAR-NYAR MWBE Cross-Reference" - NodeID: "SW-FAR-CPAR-EQ-001" Description: "Links FAR and CPAR equitable procurement guidelines." Source: "FAR.1.3.1.2.1.1.1" Target: "CPAR.CH.6.2.1.1.1.1.1" UnifiedID: "SW-FAR-CPAR-EQ-001" OriginalNumber: "" SAMName: "FAR-CPAR Equitable Procurement Cross-Reference" - NodeID: "SW-FAR-ACPR-LV-001" Description: "Links FAR and ACPR local vendor preference policies." Source: "FAR.1.3.1.2.1.1.1" # Example FAR Point, might need adjustment Target: "ACPR.AC.7.2.1.1.1.1.1" UnifiedID: "SW-FAR-ACPR-LV-001" OriginalNumber: "" SAMName: "FAR-ACPR Local Vendor Cross-Reference" Octopus_Nodes: - NodeID: "ON-SBA-001" Description: "Overarching node for Small Business Administration (SBA) regulations" Source: "SBA Regulations" References: - "FAR.1.1.1.1.1.1.1" - "DFARS.2.1.2.1.1.1.1" - "SAR.CA.1.2.3.4" UnifiedID: "ON-SBA-001" OriginalNumber: "" SAMName: "SBA Regulatory Compliance" - NodeID: "ON-ENV-001" Description: "Overarching node for all environmental regulations (EPA)" Source: "EPA Regulations" References: - "FAR.1.2.1.2.1.1.1" - "DFARS.2.1.1.2.1.1.1" - "SAR.NY.1.2.3.4" UnifiedID: "ON-ENV-001" OriginalNumber: "" SAMName: "EPA Regulatory Compliance" - NodeID: "ON-CAL-GOV-001" Description: "Overarching node for California State Government procurement guidelines" Source: "California Department of General Services (DGS) Procurement Guidelines" References: - "SAR.CA.1.1.1.1.1" - "SAR.CA.3.2.1.1.1.1.1" - "SAR.CA.3.1.1.1.1.1.1.1" UnifiedID: "ON-CAL-GOV-001" OriginalNumber: "" SAMName:

"California State Procurement Compliance" - NodeID: "ON-SF-GOV-001" Description: "Overarching node for City of San Francisco procurement policies" Source: "San Francisco Office of Contract Administration (OCA) Policies" References: - "SFAR.SF.1.1.1.1.1" - "SFAR.SF.4.2.1.1.1.1.1" - "SFAR.SF.4.1.1.1.1.1.1" UnifiedID: "ON-SF-GOV-001" OriginalNumber: "" SAMName: "San Francisco City Procurement Compliance" - NodeID: "ON-NY-GOV-001" Description: "Overarching node for New York State procurement policies" Source: "New York State Office of General Services (OGS) Guidelines" References: - "NYAR.NY.1.1.1.1.1" - "NYAR.NY.5.2.1.1.1.1.1" - "NYAR.NY.5.1.1.1.1.1.1" UnifiedID: "ON-NY-GOV-001" OriginalNumber: "" SAMName: "New York State Procurement Compliance" - NodeID: "ON-CHI-GOV-001" Description: "Overarching node for City of Chicago procurement policies" Source: "City of Chicago Department of Procurement Services (DPS) Policies" References: - "CPAR.CH.1.1.1.1.1" - "CPAR.CH.6.2.1.1.1.1.1" - "CPAR.CH.6.1.1.1.1.1.1" UnifiedID: "ON-CHI-GOV-001" OriginalNumber: "" SAMName: "Chicago City Procurement Compliance" - NodeID: "ON-ANY-CO-001" Description: "Overarching node for Any County procurement policies." Source: "Any County Department of Purchasing" References: - "ACPR.AC.1.1.1.1.1" - "ACPR.AC.7.2.1.1.1.1.1" - "ACPR.AC.7.1.1.1.1.1.1" UnifiedID: "ON-ANY-CO-001" OriginalNumber: "" SAMName: "Any County Procurement Compliance" Honeycomb_Nodes: - NodeID: "HC-FAR-DFAR-001" Description: "Honeycomb node linking FAR and DFARS for cybersecurity requirements" Source: "FAR.1.2.1.1.1.1.1" Target: "DFARS.2.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-DFAR-001" OriginalNumber: "" SAMName: "FAR-DFAR Cybersecurity Cross-Reference" - NodeID: "HC-FAR-DFAR-PRO-001" Description: "Honeycomb node linking FAR and DFARS for procurement process." Source: "FAR.1.3.1.1.1.1.1" Target: "DFARS.2.3.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-DFAR-PRO-001" OriginalNumber: "" SAMName: "FAR-DFAR Procurement Process Cross-Reference" - NodeID: "HC-FAR-SAR-001" Description: "Honeycomb node linking FAR and state regulations (example SAR - State of California)" Source: "FAR.1.3.1.1.1.1.1" Target: "SAR.CA.1.3.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SAR-001" OriginalNumber: "" SAMName: "FAR-SAR Procurement Process Cross-Reference" - NodeID: "HC-FAR-SAR-SUST-001" Description: "Honeycomb node linking FAR and SAR for sustainability requirements." Source: "FAR.1.2.1.2.1.1.1" Target: "SAR.CA.3.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SAR-SUST-001" OriginalNumber: "" SAMName: "FAR-SAR Sustainability Cross-Reference" - NodeID: "HC-FAR-SFAR-LOCAL-001" Description: "Honeycomb node linking FAR and SFAR for local business preference." Source: "FAR.1.3.1.2.1.1.1" Target: "SFAR.SF.4.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SFAR-LOCAL-001"

OriginalNumber: "" SAMName: "FAR-SFAR Local Preference Cross-Reference" - NodeID: "HC-FAR-NYAR-MWBE-001" Description: "Honeycomb node linking FAR and NYAR for minority and women-owned business enterprise." Source: "FAR.1.3.1.2.1.1.1" Target: "NYAR.NY.5.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-NYAR-MWBE-001" OriginalNumber: "" SAMName: "FAR-NYAR MWBE Cross-Reference" - NodeID: "HC-FAR-CPAR-EQ-001" Description: "Honeycomb node linking FAR and CPAR for equitable procurement." Source: "FAR.1.3.1.2.1.1.1" Target: "CPAR.CH.6.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-CPAR-EQ-001" OriginalNumber: "" SAMName: "FAR-CPAR Equitable Procurement Cross-Reference" - NodeID: "HC-FAR-ACPR-LV-001" Description: "Honeycomb node linking FAR and ACPR local vendor preference." Source: "FAR.1.3.1.2.1.1.1" # Example, may need a different FAR point Target: "ACPR.AC.7.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-ACPR-LV-001" OriginalNumber: "" SAMName: "FAR-ACPR Local Vendor Cross-Reference" # Add more pillars for other states or local procurement Pillars: #Adding a Sample School District - Example is "Any School District" - PillarID: "8" PillarName: "Any School District Procurement Regulation (ASPR)" UnifiedID: "ASPR.ASD" OriginalNumber: "ASPR-ASD" SAMName: "Any School District Procurement Regulation" OwnerAgency: "Any School District Purchasing Department" EffectiveDate: "2023-01-01" ExpirationDate: "2026-12-31" Description: "Procurement regulations for Any School District (Example)." BaseLevel: BaseLevelID: "ASPR-ASD-Base" BaseLevelName: "ASPR Parts" Branches: - MegaBranchID: "ASPR-ASD-Part-1" MegaBranchName: "ASPR Part 1 - General Provisions" UnifiedID: "ASPR.ASD.1" OriginalNumber: "1" SAMName: "ASPR Part 1 - General Provisions" Description: "Outlines the basic principles for procurement in Any School District." LargeBranches: - LargeBranchID: "ASPR-ASD-Part-1.1" LargeBranchName: "ASPR Subpart 1.1 - Introduction and Authority" UnifiedID: "ASPR.ASD.1.1" OriginalNumber: "1.1" SAMName: "ASPR Subpart 1.1 - Introduction and Authority" Description: "Introduces the procurement policy for the school district." MediumBranches: - MediumBranchID: "ASPR-ASD-Part-1.1.1" MediumBranchName: "ASPR Section 1.101 - Purpose and Goals" UnifiedID: "ASPR.ASD.1.1.1" OriginalNumber: "1.101" SAMName: "ASPR Section 1.101 - Purpose and Goals" Description: "Defines the mission and goals of the school district's procurement." SmallBranches: - SmallBranchID: "ASPR-ASD-Part-1.1.1.1" SmallBranchName: "ASPR Clause 1.101(a) - District Policy" UnifiedID: "ASPR.ASD.1.1.1.1"

OriginalNumber: "1.101(a)" SAMName: "ASPR Clause 1.101(a) - District Policy" Description: "Sets forth the procurement policy of Any School District." Nodes: - NodeID: "ASPR-ASD-Part-1.1.1.1.1" NodeName: "Purpose of the ASPR System" UnifiedID: "ASPR.ASD.1.1.1.1.1" OriginalNumber: "1.101(a)" SAMName: "Purpose of the ASPR System" Description: "Establishes the rationale for procurement within the school district." RegulatoryReference: "ASPR 1.101(a)" Roles: - RoleID: "SD1" RoleName: "School District Procurement Analyst" LevelOfExpertise: "Mid-Level" Education: - "Bachelor's degree in Education Administration, Business Administration or related field" Certifications: - "Certified Educational Procurement Professional (CEPP)" KeySkills: - "School district procurement processes" - "Understanding of educational compliance requirements" - "Communication with teachers, principals, and administrators" JobDescription: "Assists in developing procurement procedures, ensuring compliance with education-related standards. Supports purchasing operations for school resources." TrainingResources: [] # ... (Continue with other ASPR Parts, Subparts, Sections, and Clauses) TreeLevels: - LevelID: "8.1" LevelName: "Sectors of Industry (ASPR)" UnifiedID: "ASPR.ASD.8.1" OriginalNumber: "" SAMName: "Sectors of Industry (ASPR)" Description: "Mapping of ASPR regulations to various industry sectors related to educational institutions." Branches: - MegaBranchID: "ASPR-ASD.8.1.1" MegaBranchName: "Educational Supplies and Equipment" UnifiedID: "ASPR.ASD.8.1.1" OriginalNumber: "" SAMName: "Educational Supplies and Equipment" AssociatedCodes: - NAICS: "339940" - SIC: "3953" - NIC: "381" - PSC: "75" LargeBranches: - LargeBranchID: "ASPR-ASD.8.1.1.1" LargeBranchName: "Classroom Furniture" UnifiedID: "ASPR.ASD.8.1.1.1" OriginalNumber: "" SAMName: "Classroom Furniture" AssociatedCodes: - NAICS: "337127" - SIC: "2599" - NIC: "253" - PSC: "7110" MediumBranches: - MediumBranchID: "ASPR-ASD.8.1.1.1.1" MediumBranchName: "Student Desk Procurement" UnifiedID: "ASPR.ASD.8.1.1.1.1" OriginalNumber: "" SAMName: "Student Desk Procurement" AssociatedCodes: - NAICS: "337127" - SIC: "2599" - NIC: "253" - PSC: "7110D" SmallBranches: - SmallBranchID: "ASPR-ASD.8.1.1.1.1.1" SmallBranchName: "Safety Standards for Student Desks" UnifiedID: "ASPR.ASD.8.1.1.1.1.1" OriginalNumber: "" SAMName: "Safety Standards for Student Desks" AssociatedCodes: - NAICS: "337127" - SIC: "2599" - NIC: "253" - PSC: "7110D" Nodes: - NodeID: "ASPR-ASD.8.1.1.1.1.1.1" NodeName: "School District Student Desk Safety Specifications" UnifiedID: "ASPR.ASD.8.1.1.1.1.1.1" OriginalNumber: "" SAMName: "School District Student Desk Safety Specifications" Description: "Mandatory safety specifications for student desks in the school district." RegulatoryReference: "Any School District Safety Standards Document" Roles: - RoleID: "SED" RoleName: "School Equipment Compliance Specialist" LevelOfExpertise: "Mid-Level" Subparts: JobTasks: - "Ensure compliance with safety standards for procured school equipment." - "Oversee vendor compliance with product specifications." Education: - "Bachelor's Degree in Engineering, or a related field" Certifications: - "Certified Safety Standards Professional" - "Educational Procurement Specialist" JobTraining: - "Training in safety standards for educational equipment." - "On-the-job training in vendor compliance practices." AssociatedCodes: - NAICS: "337127" - SIC: "2599" - NIC: "253" - PSC: "7110D" # ... (Add more sectors for Any School District) - LevelID: "8.2" LevelName: "District Register (ASPR)" UnifiedID: "ASPR.ASD.8.2" OriginalNumber: "" SAMName: "District Register (ASPR)" Description: "Entries from the School District's Register impacting ASPR regulations." Branches: - MegaBranchID: "ASPR-ASD.8.2.1" MegaBranchName: "ASPR School District Register Updates" UnifiedID: "ASPR.ASD.8.2.1" OriginalNumber: "" SAMName: "ASPR School District Register Updates" LargeBranches: - LargeBranchID: "ASPR-ASD.8.2.1.1" LargeBranchName: "Any School District Procurement Amendments" UnifiedID: "ASPR.ASD.8.2.1.1" OriginalNumber: "" SAMName: "Any School District Procurement Amendments" MediumBranches: - MediumBranchID: "ASPR-ASD.8.2.1.1.1" MediumBranchName: "Proposed Rule on Textbook Procurement" UnifiedID: "ASPR.ASD.8.2.1.1.1" OriginalNumber: "" SAMName: "Proposed Rule on Textbook Procurement" SmallBranches: - SmallBranchID: "ASPR-ASD.8.2.1.1.1.1" SmallBranchName: "Digital Textbook Accessibility Requirements" UnifiedID: "ASPR.ASD.8.2.1.1.1.1" OriginalNumber: "" SAMName: "Digital Textbook Accessibility Requirements" Nodes: - NodeID: "ASPR-ASD.8.2.1.1.1.1.1" NodeName: "Any School District Textbook Accessibility Guidelines" UnifiedID: "ASPR.ASD.8.2.1.1.1.1.1" OriginalNumber: "ASD-DistReg-2023-001" SAMName: "Any School District Textbook Accessibility Guidelines" Description: "Guidelines for ensuring digital textbooks are accessible to all students." RegulatoryReference: "Any School District Register 2023, Notice 001" PublicationDate: "2023-09-05" Status: "Proposed" Roles: - RoleID: "TEA" RoleName: "Textbook Accessibility Specialist" LevelOfExpertise: "Mid-Level" Subparts: JobTasks: - "Evaluate proposed guidelines for digital textbook accessibility." - "Support procurement of accessible educational materials." Education: - "Bachelor's degree in Education, Special Education or related field" Certifications: - "Certified Accessibility Specialist" - "Education Procurement Certification" JobTraining: - "Training in accessibility standards for educational materials." - "Experience in educational technology" AssociatedCodes: - NAICS: "511130" - PSC: "Z2AA" - SIC: "2731" - NIC: "253" # ... Add more district register details - LevelID: "8.3" LevelName: "Acquisition Life Cycle (ASPR)" UnifiedID: "ASPR.ASD.8.3" OriginalNumber: ""

SAMName: "Acquisition Life Cycle (ASPR)" Description: "Phases of the procurement process specific to Any School District." Branches: - MegaBranchID: "ASPR-ASD.8.3.1" MegaBranchName: "Pre-Award Phase (ASPR)" UnifiedID: "ASPR.ASD.8.3.1" OriginalNumber: "" SAMName: "Pre-Award Phase (ASPR)" # ... (Large, Medium, and Small Branches with Nodes for ASPR Pre-Award Phase) - MegaBranchID: "ASPR-ASD.8.3.2" MegaBranchName: "Award Phase (ASPR)" UnifiedID: "ASPR.ASD.8.3.2" OriginalNumber: "" SAMName: "Award Phase (ASPR)" # ... (Large, Medium, and Small Branches with Nodes for ASPR Award Phase) - MegaBranchID: "ASPR-ASD.8.3.3" MegaBranchName: "Post-Award Phase (ASPR)" UnifiedID: "ASPR.ASD.8.3.3" OriginalNumber: "" SAMName: "Post-Award Phase (ASPR)" # ... (Large, Medium, and

Small Branches with Nodes for ASPR Post-Award Phase) - LevelID: "8.4" LevelName: "Legislative Branches (ASPR)" UnifiedID: "ASPR.ASD.8.4" OriginalNumber: "" SAMName: "Legislative Branches (ASPR)" Description: "Legislative acts, bills, and laws affecting ASPR regulations." Branches: - MegaBranchID: "ASPR-ASD.8.4.1" MegaBranchName: "School Board Policies (ASPR)" UnifiedID: "ASPR.ASD.8.4.1" OriginalNumber: "" SAMName: "School Board Policies (ASPR)" # ... (Large, Medium, and Small Branches with Nodes for ASPR School Board Policies) - MegaBranchID: "ASPR-ASD.8.4.2" MegaBranchName: "State Education Regulations (ASPR)" UnifiedID: "ASPR.ASD.8.4.2" OriginalNumber: "" SAMName: "State Education Regulations (ASPR)" # ... (Large, Medium, and Small Branches with Nodes for ASPR State Education Regulations) - LevelID: "ASPR.ASD.8.5" LevelName: "ASPR Catch-All" UnifiedID: "ASPR.ASD.8.5" OriginalNumber: "" SAMName: "ASPR Catch-All" Description: "ASPR parts and clauses not covered in other sections." Branches: - MegaBranchID: "ASPR-ASD.8.5.1" MegaBranchName: "Uncategorized ASPR Parts" UnifiedID: "ASPR.ASD.8.5.1" OriginalNumber: "" SAMName: "Uncategorized ASPR Parts" # ... (Large, Medium, and Small Branches with Nodes for uncategorized ASPR parts) SpiderWeb_Nodes: - NodeID: "SW-FAR-DFARS-ENV-001" Description: "Links FAR and DFARS environmental standards to EPA regulations" Source: "FAR.1.1.1.1.1.1.1" Target: "DFARS.2.1.2.1.1.1.1" UnifiedID: "SW-FAR-DFARS-ENV-001" OriginalNumber: "" SAMName: "Environmental Standards Cross-Reference" - NodeID: "SW-FAR-DFARS-CYB-001" Description: "Links FAR and DFARS cybersecurity standards." Source: "FAR.1.2.1.1.1.1.1" Target: "DFARS.2.2.1.1.1.1.1" UnifiedID: "SW-FAR-DFARS-CYB-001" OriginalNumber: "" SAMName: "Cybersecurity Standards Cross-Reference" - NodeID: "SW-FAR-SAR-ENV-001" Description: "Links FAR and SAR environmental standards related to green procurement." Source: "FAR.1.2.1.2.1.1.1" Target: "SAR.CA.3.2.1.1.1.1.1" UnifiedID: "SW-FAR-SAR-ENV-001" OriginalNumber: "" SAMName: "FAR-SAR Environmental Cross-Reference" - NodeID: "SW-FAR-SFAR-LOCAL-001" Description: "Links FAR and SFAR local business preference policies." Source: "FAR.1.3.1.2.1.1.1" Target: "SFAR.SF.4.2.1.1.1.1.1" UnifiedID: "SW-FAR-SFAR-LOCAL-001" OriginalNumber: "" SAMName: "FAR-SFAR Local Business Preference Cross-Reference" - NodeID: "SW-FAR-NYAR-MWBE-001" Description: "Links FAR and NYAR minority and women-owned business enterprise policies." Source: "FAR.1.3.1.2.1.1.1" Target: "NYAR.NY.5.2.1.1.1.1.1" UnifiedID: "SW-FAR-NYAR-MWBE-001" OriginalNumber: "" SAMName: "FAR-NYAR MWBE Cross-Reference" - NodeID: "SW-FAR-CPAR-EQ-001" Description: "Links FAR and CPAR equitable procurement guidelines." Source: "FAR.1.3.1.2.1.1.1" Target: "CPAR.CH.6.2.1.1.1.1.1" UnifiedID: "SW-FAR-CPAR-EQ-001" OriginalNumber: "" SAMName: "FAR-CPAR Equitable Procurement Cross-Reference" - NodeID: "SW-FAR-ACPR-LV-001" Description: "Links FAR and ACPR local vendor preference policies." Source: "FAR.1.3.1.2.1.1.1" Target: "ACPR.AC.7.2.1.1.1.1.1" UnifiedID: "SW-FAR-ACPR-LV-001" OriginalNumber: "" SAMName: "FAR-ACPR Local Vendor Cross-Reference" - NodeID: "SW-FAR-ASPR-ACC-001" Description: "Links FAR and ASPR for textbook accessibility standards." Source: "FAR.1.2.1.2.1.1.1" #Example FAR point Target: "ASPR.ASD.8.2.1.1.1.1.1" UnifiedID: "SW-FAR-ASPR-ACC-001" OriginalNumber: "" SAMName: "FAR-ASPR Textbook Accessibility Cross-Reference" Octopus_Nodes: - NodeID: "ON-SBA-001" Description: "Overarching node for Small Business Administration (SBA) regulations" Source: "SBA Regulations" References: - "FAR.1.1.1.1.1.1.1" - "DFARS.2.1.2.1.1.1.1" - "SAR.CA.1.2.3.4" UnifiedID: "ON-SBA-001" OriginalNumber: "" SAMName: "SBA Regulatory Compliance" - NodeID: "ON-ENV-001" Description: "Overarching node for all environmental regulations (EPA)" Source: "EPA Regulations" References: - "FAR.1.2.1.2.1.1.1" - "DFARS.2.1.1.2.1.1.1" - "SAR.NY.1.2.3.4" UnifiedID: "ON-ENV-001" OriginalNumber: "" SAMName: "EPA Regulatory Compliance" - NodeID: "ON-CAL-GOV-001" Description: "Overarching node for California State Government procurement guidelines" Source: "California Department of General Services (DGS) Procurement Guidelines" References: - "SAR.CA.1.1.1.1.1" - "SAR.CA.3.2.1.1.1.1.1" - "SAR.CA.3.1.1.1.1.1.1" UnifiedID: "ON-CAL-GOV-001" OriginalNumber: "" SAMName: "California State Procurement Compliance" - NodeID: "ON-SF-GOV-001" Description: "Overarching node for City of San Francisco procurement policies" Source: "San Francisco Office of

Contract Administration (OCA) Policies" References: - "SFAR.SF.1.1.1.1.1" - "SFAR.SF.4.2.1.1.1.1.1" -

"SFAR.SF.4.1.1.1.1.1.1" UnifiedID: "ON-SF-GOV-001" OriginalNumber: "" SAMName: "San Francisco City Procurement Compliance" - NodeID: "ON-NY-GOV-001" Description: "Overarching node for New York State procurement policies" Source: "New York State Office of General Services (OGS) Guidelines" References: - "NYAR.NY.1.1.1.1.1" - "NYAR.NY.5.2.1.1.1.1.1" - "NYAR.NY.5.1.1.1.1.1.1" UnifiedID: "ON-NY-GOV-001" OriginalNumber: "" SAMName: "New York State Procurement Compliance" - NodeID: "ON-CHI-GOV-001" Description: "Overarching node for City of Chicago procurement policies" Source: "City of Chicago Department of Procurement Services (DPS) Policies" References: - "CPAR.CH.1.1.1.1.1" - "CPAR.CH.6.2.1.1.1.1.1" - "CPAR.CH.6.1.1.1.1.1.1" UnifiedID: "ON-CHI-GOV-001" OriginalNumber: "" SAMName: "Chicago City Procurement Compliance" - NodeID: "ON-ANY-CO-001" Description: "Overarching node for Any County procurement policies." Source: "Any County Department of Purchasing" References: - "ACPR.AC.1.1.1.1.1" - "ACPR.AC.7.2.1.1.1.1.1" - "ACPR.AC.7.1.1.1.1.1.1" UnifiedID: "ON-ANY-CO-001" OriginalNumber: "" SAMName: "Any County Procurement Compliance" - NodeID: "ON-ASD-GOV-001" Description: "Overarching node for Any School District procurement policies." Source: "Any School District Purchasing Department" References: - "ASPR.ASD.1.1.1.1.1" - "ASPR.ASD.8.2.1.1.1.1.1" - "ASPR.ASD.8.1.1.1.1.1.1" UnifiedID: "ON-ASD-GOV-001" OriginalNumber: "" SAMName: "Any School District Procurement Compliance" Honeycomb_Nodes: - NodeID: "HC-FAR-DFAR-001" Description: "Honeycomb node linking FAR and DFARS for cybersecurity requirements" Source: "FAR.1.2.1.1.1.1.1" Target: "DFARS.2.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-DFAR-001" OriginalNumber: "" SAMName: "FAR-DFAR Cybersecurity Cross-Reference" - NodeID: "HC-FAR-DFAR-PRO-001" Description: "Honeycomb node linking FAR and DFARS for procurement process." Source: "FAR.1.3.1.1.1.1.1" Target: "DFARS.2.3.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-DFAR-PRO-001" OriginalNumber: "" SAMName: "FAR-DFAR Procurement Process Cross-Reference" - NodeID: "HC-FAR-SAR-001" Description: "Honeycomb node linking FAR and state regulations (example SAR - State of California)" Source: "FAR.1.3.1.1.1.1.1" Target: "SAR.CA.1.3.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SAR-001" OriginalNumber: "" SAMName: "FAR-SAR Procurement Process Cross-Reference" - NodeID: "HC-FAR-SAR-SUST-001" Description: "Honeycomb node linking FAR and SAR for sustainability requirements." Source: "FAR.1.2.1.2.1.1.1" Target: "SAR.CA.3.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SAR-SUST-001" OriginalNumber: "" SAMName: "FAR-SAR Sustainability Cross-Reference" - NodeID: "HC-FAR-SFAR-LOCAL-001" Description: "Honeycomb node linking FAR and SFAR for local business preference." Source: "FAR.1.3.1.2.1.1.1" Target: "SFAR.SF.4.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SFAR-LOCAL-001" OriginalNumber: "" SAMName: "FAR-SFAR Local Preference Cross-Reference" - NodeID: "HC-FAR-NYAR-MWBE-001" Description: "Honeycomb node linking FAR and NYAR for minority and women-owned business enterprise." Source: "FAR.1.3.1.2.1.1.1" Target: "NYAR.NY.5.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-NYAR-MWBE-001" OriginalNumber: "" SAMName: "FAR-NYAR MWBE Cross-Reference" - NodeID: "HC-FAR-CPAR-EQ-001" Description: "Honeycomb node linking FAR and CPAR for equitable procurement." Source: "FAR.1.3.1.2.1.1.1" Target: "CPAR.CH.6.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-CPAR-EQ-001" OriginalNumber: "" SAMName: "FAR-CPAR Equitable Procurement Cross-Reference" - NodeID: "HC-FAR-ACPR-LV-001" Description: "Honeycomb node linking FAR and ACPR local vendor preference." Source: "FAR.1.3.1.2.1.1.1" Target: "ACPR.AC.7.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-ACPR-LV-001" OriginalNumber: "" SAMName: "FAR-ACPR Local Vendor Cross-Reference" - NodeID: "HC-FAR-ASPR-ACC-001" Description: "Honeycomb node linking FAR and ASPR for textbook accessibility." Source: "FAR.1.2.1.2.1.1.1" #Example, may need adjustment Target: "ASPR.ASD.8.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-ASPR-ACC-001" OriginalNumber: "" SAMName: "FAR-ASPR Textbook Accessibility Cross-Reference" # Add more pillars for other states or local procurement

Pillars: #Adding a Sample Special District - Example is "Any Water District" - PillarID: "9" PillarName: "Any Water District Procurement Regulation (AWPR)" UnifiedID: "AWPR.AWD" OriginalNumber: "AWPR-AWD" SAMName: "Any Water District Procurement Regulation" OwnerAgency: "Any Water District Purchasing Department" EffectiveDate: "2023-01-01" ExpirationDate: "2026-12-31" Description: "Procurement regulations for Any Water District (Example)." BaseLevel: BaseLevelID: "AWPR-AWD-Base" BaseLevelName: "AWPR Parts" Branches: - MegaBranchID: "AWPR-AWD-Part-1" MegaBranchName: "AWPR Part 1 - General Provisions" UnifiedID: "AWPR.AWD.1" OriginalNumber: "1" SAMName: "AWPR Part 1 - General Provisions" Description: "Basic rules for Any Water District's procurement operations." LargeBranches: - LargeBranchID: "AWPR-AWD-Part-1.1" LargeBranchName: "AWPR Subpart 1.1 - Introduction and Definitions" UnifiedID: "AWPR.AWD.1.1" OriginalNumber: "1.1" SAMName: "AWPR Subpart 1.1 - Introduction and Definitions" Description: "Introduction to the procurement practices of the water district." MediumBranches: - MediumBranchID: "AWPR-AWD-Part-1.1.1"

MediumBranchName: "AWPR Section 1.101 - Purpose and Scope" UnifiedID: "AWPR.AWD.1.1.1" OriginalNumber: "1.101" SAMName: "AWPR Section 1.101 - Purpose and Scope" Description: "Defines the goals and application of the water district's procurement system." SmallBranches: - SmallBranchID: "AWPR-AWD-Part-1.1.1.1" SmallBranchName: "AWPR Clause 1.101(a) - District Mission" UnifiedID: "AWPR.AWD.1.1.1.1" OriginalNumber: "1.101(a)" SAMName: "AWPR Clause 1.101(a) - District Mission" Description: "Mission statement for the procurement within Any Water District." Nodes: - NodeID: "AWPR-AWD-Part-1.1.1.1.1" NodeName: "Purpose of the AWPR System" UnifiedID: "AWPR.AWD.1.1.1.1.1" OriginalNumber: "1.101(a)" SAMName: "Purpose of the AWPR System" Description: "Establishes the core purpose of Any Water District's procurement system." RegulatoryReference: "AWPR 1.101(a)" Roles: - RoleID: "WD1" RoleName: "Water District Procurement Analyst" LevelOfExpertise: "Mid-Level" Education: - "Bachelor's degree in Public Administration, Environmental Science, or related field" Certifications: - "Certified Special District Procurement Professional (CSDPP)" KeySkills: - "Special district procurement laws" - "Understanding of water resource management" - "Communication with engineering and operation departments" JobDescription: "Supports procurement processes for the water district, ensuring adherence to special district regulations. Involved in procuring resources for water services." TrainingResources: [] # ... (Continue with other AWPR Parts, Subparts, Sections, and Clauses) TreeLevels: - LevelID: "9.1" LevelName: "Sectors of Industry (AWPR)" UnifiedID: "AWPR.AWD.9.1" OriginalNumber: "" SAMName: "Sectors of Industry (AWPR)" Description: "Mapping of AWPR regulations to various industries serving water districts." Branches: - MegaBranchID: "AWPR-AWD.9.1.1" MegaBranchName: "Water Infrastructure and Equipment" UnifiedID: "AWPR.AWD.9.1.1" OriginalNumber: "" SAMName: "Water Infrastructure and Equipment" AssociatedCodes: - NAICS: "2213" - SIC: "4941" - NIC: "941" - PSC: "49" LargeBranches: - LargeBranchID: "AWPR-AWD.9.1.1.1" LargeBranchName: "Water Treatment Facilities" UnifiedID: "AWPR.AWD.9.1.1.1" OriginalNumber: "" SAMName: "Water Treatment Facilities" AssociatedCodes: - NAICS: "221310" - SIC: "4941" - NIC: "9411" - PSC: "4910" MediumBranches: - MediumBranchID: "AWPR-AWD.9.1.1.1.1" MediumBranchName: "Water Pump Procurement" UnifiedID: "AWPR.AWD.9.1.1.1.1" OriginalNumber: "" SAMName: "Water Pump Procurement" AssociatedCodes: - NAICS: "333911" - SIC: "3561" - NIC: "331" - PSC: "4320" SmallBranches: - SmallBranchID: "AWPR-AWD.9.1.1.1.1.1" SmallBranchName: "Water Pump Efficiency Standards" UnifiedID: "AWPR.AWD.9.1.1.1.1.1" OriginalNumber: "" SAMName: "Water Pump Efficiency Standards" AssociatedCodes: - NAICS: "333911" - SIC: "3561" - NIC: "331" - PSC: "4320" Nodes: - NodeID: "AWPR-AWD.9.1.1.1.1.1.1" NodeName: "Water District Pump Efficiency Specifications" UnifiedID: "AWPR.AWD.9.1.1.1.1.1.1" OriginalNumber: "" SAMName: "Water District Pump Efficiency Specifications" Description: "Efficiency standards for water pumps used by Any Water District." RegulatoryReference: "Water District Pump Specifications Manual" Roles: - RoleID: "WPE" RoleName: "Water Pump Engineer" LevelOfExpertise: "Mid-Level" Subparts: JobTasks: - "Ensure that procured pumps meet water efficiency standards." - "Oversee maintenance and

upgrades of pumping infrastructure." Education: - "Bachelor's Degree in Mechanical or Civil Engineering" Certifications: - "Certified Water System Engineer" - "Special District Equipment Specialist" JobTraining: - "Training in water pump operation and efficiency testing." - "Experience with water system maintenance" AssociatedCodes: - NAICS: "333911" - SIC: "3561" - NIC: "331" - PSC: "4320" # ... (Add more sectors for Any Water District) - LevelID: "9.2" LevelName: "District Register (AWPR)" UnifiedID: "AWPR.AWD.9.2" OriginalNumber: "" SAMName: "District Register (AWPR)" Description: "Entries from the Water District's Register impacting AWPR regulations." Branches: - MegaBranchID: "AWPR-AWD.9.2.1" MegaBranchName: "AWPR Water District Register Updates" UnifiedID: "AWPR.AWD.9.2.1" OriginalNumber: "" SAMName: "AWPR Water District Register Updates" LargeBranches: - LargeBranchID: "AWPR-AWD.9.2.1.1" LargeBranchName: "Any Water District Procurement Amendments" UnifiedID: "AWPR.AWD.9.2.1.1" OriginalNumber: "" SAMName: "Any Water District Procurement Amendments" MediumBranches: - MediumBranchID: "AWPR-AWD.9.2.1.1.1" MediumBranchName: "Proposed Rule on Energy Efficiency in Procurement" UnifiedID: "AWPR.AWD.9.2.1.1.1" OriginalNumber: "" SAMName: "Proposed Rule on Energy Efficiency in Procurement" SmallBranches: - SmallBranchID: "AWPR-AWD.9.2.1.1.1.1" SmallBranchName: "Energy Star Certification Requirements" UnifiedID: "AWPR.AWD.9.2.1.1.1.1" OriginalNumber: "" SAMName: "Energy Star Certification Requirements" Nodes: - NodeID: "AWPR-AWD.9.2.1.1.1.1.1" NodeName: "Any Water District Energy Efficiency Guidelines" UnifiedID: "AWPR.AWD.9.2.1.1.1.1.1" OriginalNumber: "AWD-DistReg-2023-001" SAMName: "Any Water District Energy Efficiency Guidelines" Description: "Guidelines for prioritizing Energy Star products in water district procurement." RegulatoryReference: "Any Water District Register 2023, Notice 001" PublicationDate: "2023-09-15" Status: "Proposed" Roles: - RoleID: "WES" RoleName: "Water Efficiency Specialist" LevelOfExpertise: "Mid-Level" Subparts: JobTasks: - "Evaluate proposed rules on energy efficiency in district procurement." - "Promote and implement procurement of Energy Star certified equipment."

Education: - "Bachelor's Degree in Environmental Science, Engineering, or related field" Certifications: - "Certified Energy Manager (CEM)" - "Special District Procurement Certification" JobTraining: - "Training in Energy Star standards and water systems." - "On-the-job training in relevant procurement processes." AssociatedCodes: - NAICS: "541620" - PSC: "F" - SIC: "8742" - NIC: "740" # ... (Add more district register details) - LevelID: "9.3" LevelName: "Acquisition Life Cycle (AWPR)" UnifiedID: "AWPR.AWD.9.3" OriginalNumber: "" SAMName: "Acquisition Life Cycle (AWPR)" Description: "Phases of the procurement process within Any Water District." Branches: - MegaBranchID: "AWPR-AWD.9.3.1" MegaBranchName: "Pre-Award Phase (AWPR)" UnifiedID: "AWPR.AWD.9.3.1" OriginalNumber: "" SAMName: "Pre-Award Phase (AWPR)" # ... (Large, Medium, and Small Branches with Nodes for AWPR Pre-Award Phase) - MegaBranchID: "AWPR-AWD.9.3.2" MegaBranchName: "Award Phase (AWPR)" UnifiedID: "AWPR.AWD.9.3.2" OriginalNumber: "" SAMName: "Award Phase (AWPR)" # ... (Large, Medium, and Small Branches with Nodes for AWPR Award Phase) - MegaBranchID: "AWPR-AWD.9.3.3" MegaBranchName: "Post-Award Phase (AWPR)" UnifiedID: "AWPR.AWD.9.3.3" OriginalNumber: "" SAMName: "Post-Award Phase (AWPR)" # ... (Large, Medium, and Small Branches with Nodes for AWPR Post-Award Phase) - LevelID: "9.4" LevelName: "Legislative Branches (AWPR)" UnifiedID: "AWPR.AWD.9.4" OriginalNumber: "" SAMName: "Legislative Branches (AWPR)" Description: "Legislative acts and regulations impacting Any Water District." Branches: - MegaBranchID: "AWPR-AWD.9.4.1" MegaBranchName: "District Board Policies (AWPR)" UnifiedID: "AWPR.AWD.9.4.1" OriginalNumber: "" SAMName: "District Board Policies (AWPR)" # ... (Large, Medium, and Small Branches with Nodes for AWPR District Board Policies) - MegaBranchID: "AWPR-AWD.9.4.2" MegaBranchName: "State Water Regulations (AWPR)" UnifiedID: "AWPR.AWD.9.4.2" OriginalNumber: "" SAMName: "State Water Regulations (AWPR)" # ... (Large, Medium, and Small Branches with Nodes for AWPR State Water Regulations) - LevelID: "AWPR.AWD.9.5" LevelName: "AWPR Catch-All" UnifiedID: "AWPR.AWD.9.5" OriginalNumber: "" SAMName: "AWPR Catch-All" Description: "AWPR parts and clauses not covered elsewhere." Branches: -
MegaBranchID: "AWPR-AWD.9.5.1" MegaBranchName: "Uncategorized AWPR Parts" UnifiedID: "AWPR.AWD.9.5.1" OriginalNumber: "" SAMName: "Uncategorized AWPR Parts" # ... (Large, Medium, and Small Branches with Nodes for uncategorized AWPR parts) SpiderWeb_Nodes: - NodeID: "SW-FAR-DFARS-ENV-001" Description: "Links FAR and DFARS environmental standards to EPA regulations" Source: "FAR.1.1.1.1.1.1.1" Target: "DFARS.2.1.2.1.1.1.1" UnifiedID: "SW-FAR-DFARS-ENV-001" OriginalNumber: "" SAMName: "Environmental Standards Cross-Reference" - NodeID: "SW-FAR-DFARS-CYB-001" Description: "Links FAR and DFARS cybersecurity standards." Source: "FAR.1.2.1.1.1.1.1" Target: "DFARS.2.2.1.1.1.1.1" UnifiedID: "SW-FAR-DFARS-CYB-001" OriginalNumber: "" SAMName: "Cybersecurity Standards Cross-Reference" - NodeID: "SW-FAR-SAR-ENV-001" Description: "Links FAR and SAR environmental standards related to green procurement." Source: "FAR.1.2.1.2.1.1.1" Target: "SAR.CA.3.2.1.1.1.1.1" UnifiedID: "SW-FAR-SAR-ENV-001" OriginalNumber: "" SAMName: "FAR-SAR Environmental Cross-Reference" - NodeID: "SW-FAR-SFAR-LOCAL-001" Description: "Links FAR and SFAR local business preference policies." Source: "FAR.1.3.1.2.1.1.1" Target: "SFAR.SF.4.2.1.1.1.1.1" UnifiedID: "SW-FAR-SFAR-LOCAL-001" OriginalNumber: "" SAMName: "FAR-SFAR Local Business Preference Cross-Reference" - NodeID: "SW-FAR-NYAR-MWBE-001" Description: "Links FAR and NYAR minority and women-owned business enterprise policies." Source: "FAR.1.3.1.2.1.1.1" Target: "NYAR.NY.5.2.1.1.1.1.1" UnifiedID: "SW-FAR-NYAR-MWBE-001" OriginalNumber: "" SAMName: "FAR-NYAR MWBE Cross-Reference" - NodeID: "SW-FAR-CPAR-EQ-001" Description: "Links FAR and CPAR equitable procurement guidelines." Source: "FAR.1.3.1.2.1.1.1" Target: "CPAR.CH.6.2.1.1.1.1.1" UnifiedID: "SW-FAR-CPAR-EQ-001" OriginalNumber: "" SAMName: "FAR-CPAR Equitable Procurement Cross-Reference" - NodeID: "SW-FAR-ACPR-LV-001" Description: "Links FAR and ACPR local vendor preference policies." Source: "FAR.1.3.1.2.1.1.1" Target: "ACPR.AC.7.2.1.1.1.1.1" UnifiedID: "SW-FAR-ACPR-LV-001" OriginalNumber: "" SAMName: "FAR-ACPR Local Vendor Cross-Reference" - NodeID: "SW-FAR-ASPR-ACC-001" Description: "Links FAR and ASPR for textbook accessibility standards." Source: "FAR.1.2.1.2.1.1.1" Target: "ASPR.ASD.8.2.1.1.1.1.1" UnifiedID: "SW-FAR-ASPR-ACC-001" OriginalNumber: "" SAMName: "FAR-ASPR Textbook Accessibility Cross-Reference" - NodeID: "SW-FAR-AWPR-EE-001" Description: "Links FAR and AWPR energy efficiency guidelines for procurement." Source: "FAR.1.2.1.2.1.1.1" # Example, may need adjustment Target: "AWPR.AWD.9.2.1.1.1.1.1" UnifiedID: "SW-FAR-AWPR-EE-001" OriginalNumber: "" SAMName: "FAR-AWPR Energy Efficiency Cross-Reference" Octopus_Nodes: - NodeID: "ON-SBA-001" Description: "Overarching node for Small Business Administration (SBA) regulations" Source: "SBA Regulations" References: - "FAR.1.1.1.1.1.1.1" - "DFARS.2.1.2.1.1.1.1" - "SAR.CA.1.2.3.4" UnifiedID: "ON-SBA-001" OriginalNumber: "" SAMName: "SBA Regulatory Compliance" - NodeID: "ON-ENV-001" Description: "Overarching node for all environmental regulations

(EPA)" Source: "EPA Regulations" References: - "FAR.1.2.1.2.1.1.1" - "DFARS.2.1.1.2.1.1.1" - "SAR.NY.1.2.3.4" UnifiedID: "ON-ENV-001" OriginalNumber: "" SAMName: "EPA Regulatory Compliance" - NodeID: "ON-CAL-GOV-001" Description: "Overarching node for California State Government procurement guidelines" Source: "California Department of General Services (DGS) Procurement Guidelines" References: - "SAR.CA.1.1.1.1.1" - "SAR.CA.3.2.1.1.1.1.1" - "SAR.CA.3.1.1.1.1.1.1" UnifiedID: "ON-CAL-GOV-001" OriginalNumber: "" SAMName: "California State Procurement Compliance" - NodeID: "ON-SF-GOV-001" Description: "Overarching node for City of San Francisco procurement policies" Source: "San Francisco Office of Contract Administration (OCA) Policies" References: - "SFAR.SF.1.1.1.1.1" - "SFAR.SF.4.2.1.1.1.1.1" - "SFAR.SF.4.1.1.1.1.1.1" UnifiedID: "ON-SF-GOV-001" OriginalNumber: "" SAMName: "San Francisco City Procurement Compliance" - NodeID: "ON-NY-GOV-001" Description: "Overarching node for New York State procurement policies" Source: "New York State Office of General Services (OGS) Guidelines" References: - "NYAR.NY.1.1.1.1.1" - "NYAR.NY.5.2.1.1.1.1.1" - "NYAR.NY.5.1.1.1.1.1.1" UnifiedID: "ON-NY-GOV-001" OriginalNumber: "" SAMName: "New York State Procurement Compliance" - NodeID: "ON-CHI-GOV-001" Description: "Overarching node for City of Chicago procurement policies" Source: "City of

Chicago Department of Procurement Services (DPS) Policies" References: - "CPAR.CH.1.1.1.1.1" - "CPAR.CH.6.2.1.1.1.1.1" - "CPAR.CH.6.1.1.1.1.1.1" UnifiedID: "ON-CHI-GOV-001" OriginalNumber: "" SAMName: "Chicago City Procurement Compliance" - NodeID: "ON-ANY-CO-001" Description: "Overarching node for Any County procurement policies." Source: "Any County Department of Purchasing" References: - "ACPR.AC.1.1.1.1.1" - "ACPR.AC.7.2.1.1.1.1.1" - "ACPR.AC.7.1.1.1.1.1.1" UnifiedID: "ON-ANY-CO-001" OriginalNumber: "" SAMName: "Any County Procurement Compliance" - NodeID: "ON-ASD-GOV-001" Description: "Overarching node for Any School District procurement policies." Source: "Any School District Purchasing Department" References: - "ASPR.ASD.1.1.1.1.1" - "ASPR.ASD.8.2.1.1.1.1.1" - "ASPR.ASD.8.1.1.1.1.1.1" UnifiedID: "ON-ASD-GOV-001" OriginalNumber: "" SAMName: "Any School District Procurement Compliance" - NodeID: "ON-AWD-GOV-001" Description: "Overarching node for Any Water District procurement policies." Source: "Any Water District Purchasing Department" References: - "AWPR.AWD.1.1.1.1.1" - "AWPR.AWD.9.2.1.1.1.1.1" - "AWPR.AWD.9.1.1.1.1.1.1" UnifiedID: "ON-AWD-GOV-001" OriginalNumber: "" SAMName: "Any Water District Procurement Compliance" Honeycomb_Nodes: - NodeID: "HC-FAR-DFAR-001" Description: "Honeycomb node linking FAR and DFARS for cybersecurity requirements" Source: "FAR.1.2.1.1.1.1.1" Target: "DFARS.2.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-DFAR-001" OriginalNumber: "" SAMName: "FAR-DFAR Cybersecurity Cross-Reference" - NodeID: "HC-FAR-DFAR-PRO-001" Description: "Honeycomb node linking FAR and DFARS for procurement process." Source: "FAR.1.3.1.1.1.1.1" Target: "DFARS.2.3.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-DFAR-PRO-001" OriginalNumber: "" SAMName: "FAR-DFAR Procurement Process Cross-Reference" - NodeID: "HC-FAR-SAR-001" Description: "Honeycomb node linking FAR and state regulations (example SAR - State of California)" Source: "FAR.1.3.1.1.1.1.1" Target: "SAR.CA.1.3.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SAR-001" OriginalNumber: "" SAMName: "FAR-SAR Procurement Process Cross-Reference" - NodeID: "HC-FAR-SAR-SUST-001" Description: "Honeycomb node linking FAR and SAR for sustainability requirements." Source: "FAR.1.2.1.2.1.1.1" Target: "SAR.CA.3.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SAR-SUST-001" OriginalNumber: "" SAMName: "FAR-SAR Sustainability Cross-Reference" - NodeID: "HC-FAR-SFAR-LOCAL-001" Description: "Honeycomb node linking FAR and SFAR for local business preference." Source: "FAR.1.3.1.2.1.1.1" Target: "SFAR.SF.4.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-SFAR-LOCAL-001" OriginalNumber: "" SAMName: "FAR-SFAR Local Preference Cross-Reference" - NodeID: "HC-FAR-NYAR-MWBE-001" Description: "Honeycomb node linking FAR and NYAR for minority and women-owned business enterprise." Source: "FAR.1.3.1.2.1.1.1" Target: "NYAR.NY.5.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-NYAR-MWBE-001" OriginalNumber: "" SAMName: "FAR-NYAR MWBE Cross-Reference" - NodeID: "HC-FAR-CPAR-EQ-001" Description: "Honeycomb node linking FAR and CPAR for equitable procurement." Source: "FAR.1.3.1.2.1.1.1" Target: "CPAR.CH.6.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-CPAR-EQ-001" OriginalNumber: "" SAMName: "FAR-CPAR Equitable Procurement Cross-Reference" - NodeID: "HC-FAR-ACPR-LV-001" Description: "Honeycomb node linking FAR and ACPR local vendor preference." Source: "FAR.1.3.1.2.1.1.1" Target: "ACPR.AC.7.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-ACPR-LV-001" OriginalNumber: "" SAMName: "FAR-ACPR Local Vendor Cross-Reference" - NodeID: "HC-FAR-ASPR-ACC-001" Description: "Honeycomb node linking FAR and ASPR for textbook accessibility." Source: "FAR.1.2.1.2.1.1.1" Target: "ASPR.ASD.8.2.1.1.1.1.1" ConnectionType: "Horizontal" UnifiedID: "HC-FAR-ASPR-ACC-001" OriginalNumber: "" SAMName: "FAR-ASPR Textbook Accessibility Cross-Reference" - NodeID: "HC-FAR-AWPR-EE-001" Description: "Honeycomb node linking FAR and AWPR for energy efficiency." Source: "FAR.1.2.1.2.1.1.1"

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4D Software Development Knowledge Framework Simulation
56 sources
The provided text details the development of a sophisticated AI agent designed to manage and query a large, hierarchical knowledge graph focused on US government acquisition regulations. This agent uses a two-tiered simulation approach, employing an in-memory database for initial processing and a knowledge graph for complex queries. The system incorporates advanced features such as Tree-of-Thought reasoning, concurrency testing, and self-population capabilities, all while aiming for efficient resource utilization. Extensive documentation outlines the system's architecture, code implementation, and integration with various tools and libraries. Security and compliance aspects are also addressed.

Discuss 15-Level Pillar System.

The 15-Level Pillar System is a core component of the Universal Knowledge Framework (UKFW), designed to categorize and structure knowledge across various domains. This system is hierarchical, with each level representing a different degree of specificity or abstraction. The system provides a structured approach to organizing complex information, moving from broad categories to specific, granular details.
Hierarchical Structure and Levels: The 15-Level Pillar System is structured to provide increasing degrees of specificity, allowing for a detailed organization of knowledge.
•
Level 1: Universal Knowledge Pillar: This is the broadest level, encompassing major areas of knowledge, such as "Natural Sciences," "Social Sciences," "Humanities," "Applied Sciences," and "Engineering and Technology".
•
Level 2: Domain Pillars: This level breaks down the universal knowledge pillars into more specific domains. For instance, "Natural Sciences" is divided into "Physics," "Chemistry," "Biology," and "Earth Sciences". Similarly, "Social Sciences" is divided into "Sociology", "Psychology", "Economics", and "Political Science".
•
Level 3: Sector Pillars: This level provides even more specific categories within each domain. Examples include "Quantum Mechanics (Physics)," "Organic Chemistry (Chemistry)," "Genetics (Biology)," and "Social Structures (Sociology)".
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Level 4: Industry Pillars: This level focuses on specific industries related to the domains. Examples include "Construction (Civil Engineering)," "Transportation (Civil Engineering)," "Software Development (Computer Science)," and "Artificial Intelligence (Computer Science)".
•
Level 5: Sub-Industry Pillars: This level represents further subdivisions within specific industries.
•
Levels 6-14: Organizational, Departmental, Functional, Task, Workflow, Process, Standard, Metric, Data Pillars: These levels become progressively more granular, moving from organizational structures to specific tasks, processes, standards, metrics, and data elements. Examples from a food security context include "Functional Pillars: Food Security Plans" (Level 8), "Task Pillars: Leadership Meetings" (Level 9), "Workflow Pillars: Agenda Setting" (Level 10), "Process Pillars: Decision Protocols" (Level 11), "Standard Pillars: ISO 26000 for Social Responsibility" (Level 12), "Metric Pillars: Food Security Index" (Level 13), and "Data Pillars: Global Hunger Reports" (Level 14).
•
Level 15: KnowledgeGraphPillars: The final level is specifically for "Semantic integration of all prior levels," forming a knowledge graph. This level's purpose is to provide a knowledge graph that integrates all other levels.
Flexibility and Adaptability: The 15-Level Pillar System is designed to be flexible and adaptable to various domains. Each level can be further subdivided, and the system can incorporate additional branches, nodes, and relationships.
Key Features and Integration:
•

Hierarchical Structure: The system organizes knowledge from broad, general categories to specific, granular details.

â€¢
Cross-Domain Integration: The system uses Honeycomb, SpiderWeb, and Octopus nodes to link knowledge across different pillars and levels. Honeycomb nodes create crosswalks that connect tree levels within and between pillars to ensure multi-directional searching and linking. SpiderWeb nodes enable intra-pillar relationships, linking items within the same major axis or category. Octopus nodes capture inter-hierarchy connections.

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Metadata: Each level includes metadata such as unique identifiers and descriptive details.

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Semantic Integration: Level 15 is designed to provide a knowledge graph that integrates all other levels.

Implementation and Usage:

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The 15-level pillar system is integrated into the PillarIndustryData class, which encapsulates attributes of a node in the knowledge graph. This class includes the 15-level Pillar breakdown, along with a 5-level industry breakdown, classification codes, role sub-axes, and meta-tagging.

â€¢
The system is used within a layered simulation environment. Layer 1 handles user queries, layer 2 manages the knowledge graph, and layer 3 conducts advanced testing.

â€¢
The system uses a NetworkX graph database, where nodes store dictionaries derived from PillarIndustryData. The database offers the ability to expand or self-populate new nodes, link them, store an internal "memory" list of references, and handle save/load to JSON.

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The AdvancedSimulationLayer provides concurrency testing by repeating queries in parallel sets and implements chaos injection, which randomly removes one node from the graph.

Example: In the context of agriculture and food security, the pillar system can be used to structure information as follows:

â€¢
Level 1: Universal Knowledge Pillar could be "Natural Sciences".

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Level 2: Domain Pillars could be "Agriculture".

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Level 3: Sector Pillars could be "Crop Production".

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Level 4: Industry Pillars could be "Grain Farming".

â€¢
Level 8: Functional Pillars could be "Food Security Plans".

â€¢
Level 9: Task Pillars could be "Leadership Meetings".

â€¢
Level 10: Workflow Pillars could be "Agenda Setting".

â€¢
Level 11: Process Pillars could be "Decision Protocols".

â€¢
Level 12: Standard Pillars could be "ISO 26000 for Social Responsibility".

â€¢
Level 13: Metric Pillars could be "Food Security Index".

â€¢
Level 14: Data Pillars could be "Global Hunger Reports".

â€¢
Level 15: Knowledge Graph Pillars could integrate all prior levels to establish inter-domain connections. .

In summary, the 15-Level Pillar System provides a comprehensive method for organizing knowledge hierarchically, facilitating detailed analysis, and simulation of project components at various levels of granularity. The system supports cross-domain integration, dynamic mapping, and reasoning.

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