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the cost estimating guidance for wsdot projects provides a consistent approach to cost estimating estimate reviews estimate documentation and management of estimate data it provides guidance on how to treat common and recurring challenges encountered in the cost estimating process estimating manual contains eight chapters this section provides a brief summary of each chapter 1 chapter 1 introduction this chapter introduces the estimating manual how it was developed and introduces each of the chapters 2 chapter 2 cost management process discusses the steps to follow within each estimate review as well table 50 cost estimating steps mapped to selected components and principles of internal controls 425 figures figure 1 cost estimating challenges and mitigations 9 figure 2 a representative life cycle cost estimate for a system 19 the purpose of the oregon department of transportation s estimating manual is to provide guidance and a resource to understand the cost estimating process for design bid build construction projects administered by odot key goals of the estimating process described in this manual include departmentwide priority on estimating managing and controlling costs fully developed and integrated policies processes and tools for cost estimation management and control rsmeans estimating handbook will help construction professionals evaluate architectural plans and specifications prepare accurate quantity takeoffs compare design alternatives and costs perform value engineering double check estimates and quotes estimate change orders features this new edition includes expanded coverage of this manual provides guidance and tools to aid vdot project managers estimators designers consultants and others in preparing and reviewing cost estimates throughout the project development process pdp and the funding application process or similar pre syip processes 1 review the bid package 2 conduct a site visit 3 perform a material takeoff 4 solicit pricing from suppliers and vendors 5 evaluate labor requirements 6 determine insurance and bonding costs 7 calculate overhead and indirect costs 8 account for profit and contingency turning an estimate into a bid proposal types of estimates develop cost estimate using cost based estimating for major items of work as appropriate and historical bid based estimating for minor items of work refine the unit costs to reflect current level of design for 75 years bni building news has been the nation s leading source for construction cost estimating books square foot cost data building codes electrical codes gypsum association references and public works specifications including the greenbook this manual is intended as a guide for developing and managing project cost it

provides policies rules procedures and tools to aid wsdot staff in preparing project cost estimates and managing cost throughout wsdot s project development process basis of estimates manual the basis of estimates is a design tool it is not a contract document all requirements measurement and payment details need to be included in the contract documents plans design standards and or specifications determine cost estimating techniques define a work breakdown structure wbs and choose an estimating method that s best suited for each element in the wbs cross check for cost and schedule drivers then create a checklist estimate can be prepared using estimating cost data that is based solely upon historic lane mile cost averages for similar projects for roadway work or upon square foot cost averages for bridge work more of an art than a science cost estimating requires a thorough understanding of project scope past price history and current market conditions as well as a generous application of human judgment key goals of the estimating process described in this manual include the key responsibilities of vdot s cost estimation office are development implementation and refinement of effective and efficient statewide cost estimation policies staff training vdot s estimating manual consistency in cost estimates statewide cfl engineer s estimate manual the objective of this manual is to provide a guide to the central federal lands standard procedure for preparation review and updating of the engineer s estimate major sections include general pay item selection rounding quantities methods of estimating cost estimating other resources dictates the estimate s scope time requirements level of detail estimate techniques and type of documentation required there are two general reasons for an army analyst to engage in cost chapter 1 intro to the program 1a 1 access to the system 1a 2 estimate workflow 1b 1 finding your projects 1c 1 project filters and saving short cuts 1d 1 cost estimating tab chapter 2 setting up a new estimate industrial construction estimating manual focuses on industrial process plants and enables the contractor subcontractor and engineer to use methods models procedures formats and technical data for developing industrial process plant construction estimates

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the cost estimating guidance for wsdot projects provides a consistent approach to cost estimating estimate reviews estimate documentation and management of estimate data it provides guidance on how to treat common and recurring challenges encountered in the cost estimating process

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table 50 cost estimating steps mapped to selected components and principles of internal controls 425 figures figure 1 cost estimating challenges and mitigations 9 figure 2 a representative life cycle cost estimate for a system 19

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the purpose of the oregon department of transportation s estimating manual is to provide guidance and a resource to understand the cost estimating process for design bid build construction projects administered by odot

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key goals of the estimating process described in this manual include departmentwide priority on estimating managing and controlling costs fully developed and integrated policies processes and tools for cost estimation management and control

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this manual provides guidance and tools to aid vdot project managers estimators designers consultants and others in preparing and reviewing cost estimates throughout the project development process pdp and the funding application process or similar pre syip processes

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1 review the bid package 2 conduct a site visit 3 perform a material takeoff 4 solicit pricing from suppliers and vendors 5 evaluate labor requirements 6 determine insurance and bonding costs 7 calculate overhead and indirect costs 8 account for profit and contingency turning an estimate

into a bid proposal types of estimates

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develop cost estimate using cost based estimating for major items of work as appropriate and historical bid based estimating for minor items of work refine the unit costs to reflect current level of design

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this manual is intended as a guide for developing and managing project cost it provides policies rules procedures and tools to aid wsdot staff in preparing project cost estimates and managing cost throughout wsdot s project development process

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basis of estimates manual the basis of estimates is a design tool it is not a contract document all requirements measurement and payment details need to be included in the contract documents

plans design standards and or specifications

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determine cost estimating techniques define a work breakdown structure wbs and choose an estimating method that s best suited for each element in the wbs cross check for cost and schedule drivers then create a checklist

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estimate can be prepared using estimating cost data that is based solely upon historic lane mile cost averages for similar projects for roadway work or upon square foot cost averages for bridge work

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more of an art than a science cost estimating requires a thorough understanding of project scope past price history and current market conditions as well as a generous application of human judgment key goals of the estimating process described in this manual include

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the key responsibilities of vdot s cost estimation office are development implementation and refinement of effective and efficient statewide cost estimation policies staff training vdot s

estimating manual consistency in cost estimates statewide

cfl estimate manual fhwa federal highway administration

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cfl engineer s estimate manual the objective of this manual is to provide a guide to the central federal lands standard procedure for preparation review and updating of the engineer s estimate major sections include general pay item selection rounding quantities methods of estimating cost estimating other resources

army cost analysis manual assistant secretary of the army

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dictates the estimate s scope time requirements level of detail estimate techniques and type of documentation required there are two general reasons for an army analyst to engage in cost

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chapter 1 intro to the program 1a 1 access to the system 1a 2 estimate workflow 1b 1 finding your projects 1c 1 project filters and saving short cuts 1d 1 cost estimating tab chapter 2 setting up a new estimate

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industrial construction estimating manual focuses on industrial process plants and enables the contractor subcontractor and engineer to use methods models procedures formats and technical data

for developing industrial process plant construction estimates

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