

Home Improvement Project: Resource Breakdown Structure (RBS)

Version 1.0
Date: [Insert Date]

1. Document Control

- **Project Name:** Home Improvement Project
 - **Project Manager:** [Your Name]
 - **Project Sponsor:** [Your Sponsor's Name]
 - **Version:** 1.0
 - **File Name:** Home-Improvement-Resource-Plan
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2. Resource Breakdown Structure (RBS)

2.1. Human Resources

Role	Skill Level	Associated Task(s)	Duration Required	Notes
Project Manager	High	Manage project timeline, budget, and approvals	Entire Project	Ensures smooth execution
Project Sponsor	Medium	Approve designs, budget, and final work	Intermittent	Provides strategic oversight
General Labor	Low	Assist with lifting, assembling, and general work	[X] days	Hired from local contractors or volunteers
Designer/Architect	High	Develop detailed plans, ensure code compliance	[X] hours	Contracted or in-house
Electrician	High	Install/repair wiring, fixtures, and panels	[X] days	Ensure compliance with electrical codes
Plumber	High	Install and maintain plumbing components	[X] days	Required for any water-related tasks

Carpenter	High	Woodworking, cabinetry, and structural elements	[X] days	Key for structural integrity
Painter	Medium	Painting walls, ceilings, and finishes	[X] days	Can be DIY or outsourced
Inspector	High	Review work for building code compliance	[X] hours	City/government-appointed

2.2. Equipment

Equipment	Skill Level	Associated Task(s)	Duration Required	Notes
Power Drill	Medium	Drilling, assembling	Project duration	Own/rent
Ladder	Low	High-area access	Project duration	Secure for safety
Post Hole Digger	Medium	Digging holes for foundation	[X] days	Rental option available
General Tools (hammers, screwdrivers, wrenches, etc.)	Low	Various construction tasks	Project duration	Already available

2.3. Materials & Supplies

Material	Quality	Associated Task(s)	Source	Notes
Lumber/Wood	High	Framing, decking, support	Home Depot/Lumber Yard	Estimate based on project needs
Concrete	High	Foundation, setting posts	Local Supplier	Need mixer rental if large amount required
Fasteners (screws, nails, brackets, etc.)	High	Securing materials	Home Depot/Hardware Store	Use BOM from design

Paint/Stain	High	Finishing, protection	Home Depot	Select color before purchase
Electrical Wiring & Fixtures	High	Electrical setup	Electrical Supplier	Ensure safety-rated components
Plumbing Pipes & Fixtures	High	Water supply, drainage	Plumbing Supplier	Compliance with building codes required

2.4. Approvals & Permits

Approval Type	Source	Duration Required	Notes
Building Permit	Government Office	[X] days	Required before construction
Electrical Permit	City Inspector	[X] days	Needed for wiring changes
Plumbing Permit	City Inspector	[X] days	Required for new installations

2.5. Storage & Worksite Management

Location	Purpose	Duration Required	Notes
Garage	Tool & material storage	Project duration	Secure storage area
Backyard	Primary worksite	Project duration	Ensure accessibility

3. Assumptions & Constraints

- **Assumption:** Materials and labor availability will not delay the project.
 - **Assumption:** Weather conditions will be favorable for outdoor tasks.
 - **Constraint:** Budget is fixed, requiring careful resource allocation.
 - **Constraint:** Permits and approvals may cause timeline adjustments.
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4. Conclusion

This **Resource Breakdown Structure (RBS)** outlines all human, equipment, material, and approval needs for the home improvement project. Adjustments can be made based on availability, budget, and project complexity.