

# Project 2010 Leveling Strategies (Open House8)

## Leveling

Resource Usage View→Select Labor/Install Windows task→Task ribbon tab→Scroll to task→Resource ribbon tab→Level group→Level Resources→Laborer→Level Now

## Add More Resources

Resource Usage View→Select Painter/Painting task→Task ribbon tab→Scroll to task→Review the Max column to determine the hours needed.

Resource Sheet view→Painter→Change to 400%

## Change Relationship

Resource Usage View→Select Contracting Specialist/Obtain Bids task→  
Task ribbon tab→Scroll to task→Gantt chart view→Select Obtain Bids→  
Go to selected task

Select the link between Obtain Permits/Obtain Bids

Finish-To-Start relationship→0d

Resource usage view to review results

## Lead/Lag

Resource Usage View→Select Carpenter/Frame Garage task→ Task ribbon tab→Scroll to task→

Gantt Chart view→Select Frame House→Go to selected task

Select relationship Frame House/Frame Garage→Lag=0d

## Lead/Lag

Resource Usage View→Select Backhoe Operator/Smooth Foundation task→

Task ribbon tab→Scroll to task→Gantt Chart view→Select Smooth Foundation  
→Go to selected task

Select relationship Backhoe Operator / Smooth Foundation →Lag=0d

## Split Task

Gantt Chart View→Select Landscaping Task→ Task ribbon tab→Scroll to task→

R-Click on the Landscaping bar→Split Task→

Click just above the “Cement Work” task on the Landscaping task

# Leveling Strategies

## Adding Hours Manually

Resource Usage View → Select Labor/Install Windows task → Task ribbon tab → Scroll to task → W T W T F M T W

The current leveled schedule looks like the following:

Install Doors	48hrs	16h	16h	16h				
Install Windows	64hrs				16h	16h	16h	16h

Change to the following – The total work must be the same:

Install Doors	48hrs	24h	24h					
Install Windows	64hrs			24h	24h	16h		

## Overtime Allocation

Split (Gantt Chart view/Task Form view)

Select Initial Electricity task → Task ribbon tab → Scroll to task → Select just below the Predecessors box on the bottom  
Format → Details → Resource Work

Add overtime and click OK until the Initial Plumbing and Initial Electricity tasks are the same duration.

## Reassign Resources

Reduce the Painter to 300% and add a Laborer who can help with the cleanup.

In the Gantt Chart view open the Paint Task information → Resources Tab

Make the following change: Assign Painter (300%), Laborer (100%)

The result is 3.2 days.

To understand how this happened we need to look at the work.

Open a split (Gantt Chart/Task form)

Select the Painting task and notice the work hours

The painter is assigned 96 hrs which is 4 days (2.4 days)

You can also see the hours assigned per day in Resource Usage view

Windows → New → Resource Usage

Page down to see the Labored and the Painters tasks

To fix the problem

The Painter must work 76.8 hrs and Laborer must work 19.2hrs.

## Resource Information (Availability by date)

View → Resource Sheet

Double Click on Plummer Task → General Tab

9/1/06 to 10/31/06 2 resources available

11/1/06 to 12/31/06 1 resource available

View → Gantt Chart → Initial Plumbing task

Project → Task Information → Advanced tab

Change the SNET constraint to 11/6/06

The task is now over allocated

View → Resource Sheet → Double Click on Plummer Task → General Tab

9/1/06 to 10/31/06 2 resources available

11/1/06 to 12/31/06 2 resources available