E*Value™ Optimization Scheduling

In addition to our block and shift scheduling, Advanced Informatics now offers Optimization Scheduling. Unlike traditional lottery scheduling tools which randomly assign a scheduling order, Optimization Scheduling incorporates all possible preferences and scenarios to create the most ideal schedule possible.

Here is an example:

Let's look at the schedule of three students: Anne, Bill and Charles. There are 3 available rotations, with 1 student per rotation.

If the schedule is created using a lottery system, Anne would choose first, Bill second and Charles third. The tables below show the breakdown of the resulting schedules.

	Rotation	Choice
Anne	Rotation A	1st
	Rotation B	2nd
	Rotation C	3rd
Bill	Rotation A	1st
	Rotation C	2nd
	Rotation B	3rd
Charles	Rotation C	1st
	Rotation A	2nd
	Rotation B	3rd

Most Lottery systems simply schedule at random or on a first-come-first-serve basis, resulting in Anne being scheduled for Rotation A, Bill in Rotation C and Charles in Rotation B, resulting in the students receiving on-average their 2nd choice.

Lottery Schedule		
	Result	Choice
Anne	Rotation A	1st
Bill	Rotation C	2nd
Charles	Rotation B	3rd
Average Choice Received: 6/3=2.0		

With E*Value™ Optimization Scheduling, students received nearly their 1st choice, **resulting in the best average choice**.

Optimization Schedule		
	Result	Choice
Anne	Rotation B	2nd
Bill	Rotation A	1st
Charles	Rotation C	1st
Average Choice Received: 4/3=1.33		

This example was done with a small number of trainees with only one preference criteria used. When you take into account the many individuals, sites, time frames, and other variables present in rotation scheduling it's easy to see how valuable E*Value™ Optimization Scheduling can be.

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