Sally Rodgers Acme 2007-Nov-16 : 11:42:55

Table of Contents

Introduction	1
Project Flow	2
Summary	3
	4
	9
	14
Defects Per Million Opportunities	19
Defect Per Million Opportunities Convert	23
Hypergeometric Distribution	27
	31
	35

Project Introduction

Project Details	
Project Name	DST
Description	Distributions
Objective	To demonstrate the availability of different probability distributions within iCT-M.
Abstract	The knowledge of which distribution applies in a given situation is an important requisite for proper probabilistic determinations.
Project Leader	Sally Rodgers
Commencement Date	07-Mar-2007
Project Completion Date	
Completion Date	
Status	Not Completed

Project Flow

Stages	Objective	Activities	Deliverables	Applet
_	Calculate DPMO	DPMO	Calculates the Defect Per Million Opportunities	
		DPMO Conversion	Converts between the Defects level and the Sigma level	DST 0 0 DPM0 Conv.
	Discrete Probability Distributions	Hypergeometric	This discrete probability distribution describes the number of successes in a sequence of n draws f rom a finite population without replacement	DST N Hyper geom
N		Binomial	This discrete probability distribution describes the number of successes in a sequence of n independent yes/no experiments, each with probability success p.	DST P Binomial
		Poisson	This discrete probability distribution describes the probability of a number of events occurring in a fixed period of time if these events occur with a kn own average rate, and a re independent of the t	Poisson
		Normal	The normal distribution, is a continuous probability distribution of the same general form, differing in their location and scale parameters: the mean and standard deviation	DST Normal
ω	Continuous Probability Distributions	Student	The t-distribution is a probability distribution that arises in the problem of estimating the mean of a normally distributed population when the sample size is small	DST n Student T
		Chi-square	The chi-square distribution is one of the most wid ely used theoretical probability distributions in inferential statistics	Chi - Square
		Fisher	The F-distribution is a continuous probability distribution arising as the ratio of two chi-squared variates	DST m Fisher

Summary

Sally Rodgers Acme 2007-Nov-16 : 11:33:31

Applet Introduction

Applet Details	
Applet Title	
Description	
Objective	
Abstract	
Team Leader	Sally Rodgers
Commencement Date	24-Mar-2007
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	No Team Members are selected.

Normal Distribution





Normal Distribution

Line



-		
Summary		
Comments		
Observations		
Lesson Learnt		
Summary		
Next Action		

Sally Rodgers Acme 2007-Nov-16 : 11:35:01

Applet Introduction

Applet Details	
Applet Title	
Description	
Objective	
Abstract	
Team Leader	Sally Rodgers
Commencement Date	24-Mar-2007
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	No Team Members are selected.

Students Distribution

Line

Z: 2



Students Distribution

Interval



Summary

Sally Rodgers Acme 2007-Nov-16 : 11:36:31

Applet Introduction

Applet Details	
Applet Title	
Description	
Objective	
Abstract	
Team Leader	Sally Rodgers
Commencement Date	24-Mar-2007
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	No Team Members are selected.

ChiSq Distribution



Acme

ChiSq Distribution

Summary

C omments

Observa tions

Less on Learnt

S ummary

Next Action

Distribution testing

Bawani Ho Acme 2007-Mar-05 : 09:57:34

Applet Details	
Applet Title	
Description	
Objective	
Abstract	
Team Leader	Bawani Ho
Commencement Date	26-Aug-2006
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	No Team Members are selected.

Interval

Line Z_R0 Normal Distribution LINE 0.45 0.40 0.35 0.30 0.25 0.20 0.20 0.10 0.05 0.00 + -2 -5 -1 2 -3 -4 Ó. 1 ġ. ŝ -6 6 4 Standard normal deviate (Z) Right Area 0.50797831372 Left Area 0.49202168628

Bawani Thambu Acme 2007-Apr-10 : 17:18:20

Applet Details	
Applet Title	
Description	
Objective	
Abstract	
Team Leader	Bawani Thambu
Commencement Date	22-Mar-2007
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	No Team Members are selected.

Sigma 1 Defects 936999

Sigma Range: -6 < sigma < 6

Bawani Thambu Acme 2007-Apr-10 : 17:29:38

Applet Details	
Applet Title	
Description	
Objective	
Abstract	
Team Leader	Bawani Thambu
Commencement Date	22-Mar-2007
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	No Team Members are selected.

Acme

Sally Rodgers Acme 2007-Nov-16 : 11:30:34

Applet Introduction

Applet Details	
Applet Title	
Description	
Objective	
Abstract	
Team Leader	Sally Rodgers
Commencement Date	12-Apr-2007
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	No Team Members are selected.

Poisson Distribution

Summary

Sally Rodgers Acme 2007-Nov-16 : 11:28:10

Applet Introduction

Applet Details	
Applet Title	
Description	
Objective	
Abstract	
Team Leader	Sally Rodgers
Commencement Date	22-Mar-2007
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	No Team Members are selected.

Binomial Distribution

Summary		
Comments		
Observations		
Lesson Learnt		
Summary		
Next Action		