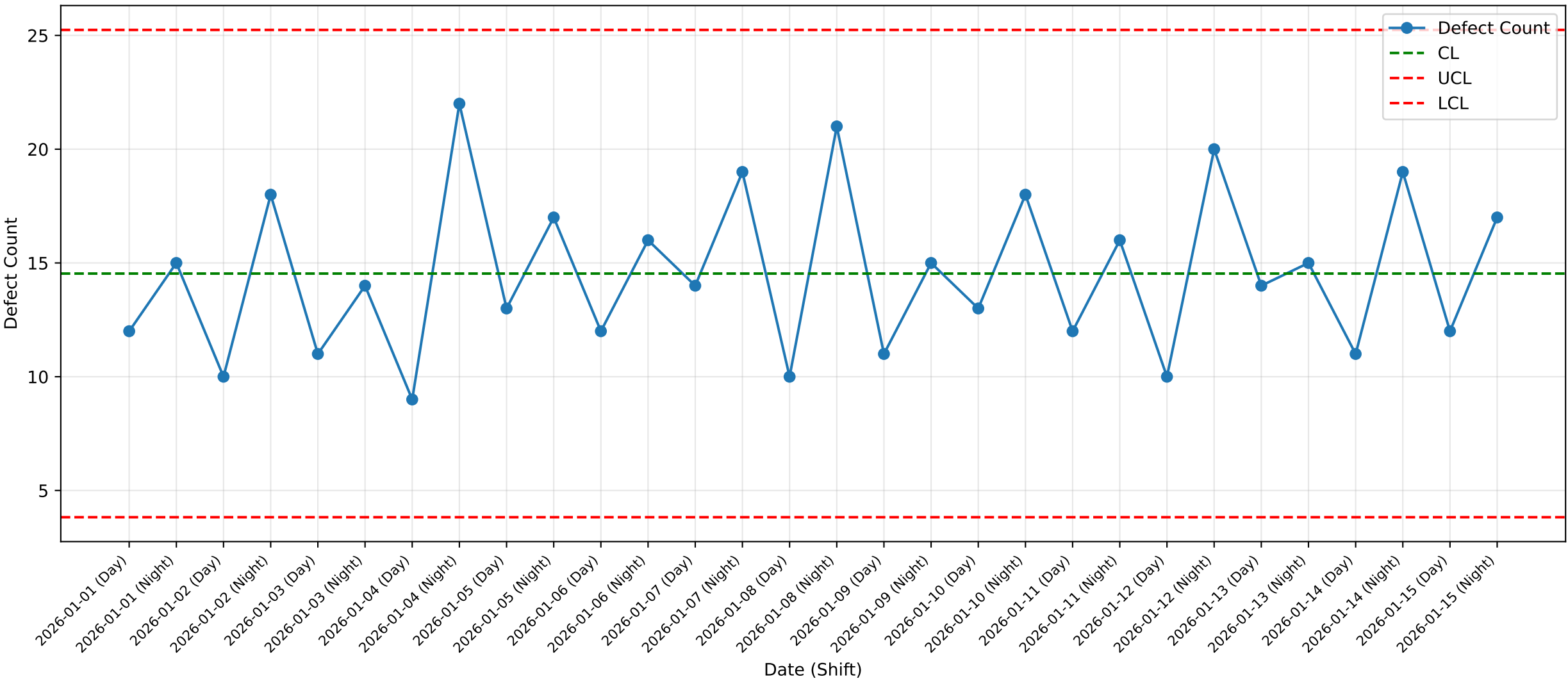


Control Chart: Defect Count Over Time



# DEFECT ANALYSIS - STATISTICAL SUMMARY

## OVERALL DEFECT RATE:

Observations : 30  
Mean Defect Rate : 0.014512 (1.4512%)  
Std Deviation : 0.003522  
95% Confidence Interval: [0.013197, 0.015827]

## CONTROL CHART LIMITS:

CL : 14.53  
UCL : 25.24  
LCL : 3.83

## T-TEST (DAY vs NIGHT):

Day Mean : 0.011559  
Night Mean : 0.017464  
T-statistic : -8.6358  
P-value : 0.000000

## INTERPRETATION:

Statistically significant difference detected.  
Night shift defect rate is higher by 0.5905%.

Report generated on 2026-01-29 13:39:06