KariAnn Harjo

ITSE 1450

Questions\_3\_3

Gantt charts and PERT/CPM charts are essential project management tools, but they differ significantly in their representations and capabilities. Gantt charts use a bar chart format to display tasks over a timeline, providing a clear view of task durations and deadlines. While they can show task dependencies, they may not highlight critical paths as effectively as PERT/CPM charts. On the other hand, PERT/CPM charts use a network diagram to illustrate task dependencies and critical paths explicitly. They are well-suited for complex projects with variable task durations, offering a comprehensive view of the project's flow.

One of the key distinctions lies in critical path analysis. While Gantt charts require manual analysis to identify critical paths, PERT/CPM charts are specifically designed for this purpose, automatically highlighting the critical path. PERT/CPM charts excel in managing complex projects, offering a deeper understanding of task relationships and sequencing. Gantt charts, meanwhile, are simpler and ideal for projects with well-defined tasks and fixed schedules. The choice between them depends on project complexity and the level of detail needed for planning and execution.