The potential success of the project is depending on the selection of a superior project manager. It is important to appoint project manager who are qualified and experienced. The challenge is to appoint the right person for the job or to engage the services of professionally trained project managers to ensure the success of the project. It is crucial to appoint a competent and compatible project manager and to vet their credibility, experience, know-how, expertise and proven track records before engaging them. This study seeks to identify the level of performance of project manager and the factors that influencing the selection of a project manager consequently to propose a model to evaluate the project manager’s performance. The study performed through the literature search and data has been collected via questionnaire survey and interviews of the human resource specialists. 20 personnel responded to the survey conducted. The analysis shows that, 56% project managers in Johor average but having high commitment, expert in construction and site management and also good in public relationship skills. The analysis also shows that the selections of the project managers were based on experience, qualifications, job knowledge and communication skills. Based on the analysis, a project manager performance evaluation model with 12 descriptions was established. They are rated according to their intelligence, attitude, skills, motivational, salary expectation, future potential and general knowledge. An overall grading of the project manager’s performance included in the model. A comparison with existing models has been validated by experts’ opinions. The model which is modified and adapted from the existing models is expected to assist project manager’s selection process effectively.