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**APPENDIX A (i)**

***Please indicate where in your course material evidence can be found of coverage of the learning outcomes and assessment criteria for each qualification you intend delivering***

# Evidence Matrix – APM Project Fundamentals Qualification

|  |  |  |
| --- | --- | --- |
| **Syllabus learning outcomes and assessment criteria** | **Evidence**  ***Eg PMQ slide 1/Course Handbook, page 3*** | **Assessor comment**  ***Not to be completed by Applicant*** |
| 1. **Understand project management and the operating environment** |  |  |
| * 1. define the term ‘project’ |  |  |
| * 1. state the differences between a project and business as usual |  |  |
| * 1. define the term ‘project management’ |  |  |
| * 1. state the key purpose of project management |  |  |
| * 1. define the terms ‘programme management’ and ‘portfolio management’ and their relationship with project management |  |  |
| * 1. describe why PESTLE analysis might be used by a project manager |  |  |
| 1. **Understand project life cycles** |  |  |
| * 1. state the phases of a typical linear project life cycle |  |  |
| * 1. state the phases of a typical iterative project life cycle |  |  |
| * 1. define the term ‘hybrid life cycle’ |  |  |
| * 1. define the term ‘extended project life cycle’ |  |  |
| **3.**  **Understand the roles and responsibilities within projects** |  |  |
| 3.1 outline project management roles and responsibilities (including the project sponsor, project manager, project governance, project team members, end users, product owner and the project management office) |  |  |
| 1. **Understand project management planning** |  |  |
| * 1. define the term ‘deployment baseline’ |  |  |
| * 1. state how deployment baselines differ between linear and iterative life cycles |  |  |
| * 1. outline the stakeholders of a project management plan |  |  |
| * 1. outline the purpose and typical content of a business case |  |  |
| * 1. explain the role of a project sponsor and project manager in relation to developing a business case |  |  |
| * 1. explain how a stakeholder analysis supports effective stakeholder engagement |  |  |
| * 1. define the term ‘benefits management’ |  |  |
| * 1. state typical estimating methods (including analytical, comparative, parametric) |  |  |
| * 1. outline the purpose of the estimating funnel |  |  |
| * 1. explain why establishing success criteria is important at the start, during, and at the handover of a project |  |  |
| * 1. outline the purpose and benefits of project progress reporting |  |  |
| 1. **Understand project scope management** |  |  |
| * 1. define the term ‘scope management’ |  |  |
| * 1. differentiate between scope management within linear projects and scope management within iterative projects |  |  |
| * 1. describe how product breakdown structures (PBS) and work breakdown structures (WBS) are used to illustrate the required scope of work |  |  |
| * 1. outline how a project manager would use cost breakdown structures (CBS), organisational breakdown structures (OBS) and the responsibility assignment matrix (RAM) |  |  |
| * 1. define the terms ‘configuration management’ and ‘change control’ in the context of scope management |  |  |
| * 1. explain the relationship between change control and configuration management |  |  |
| * 1. outline the stages in a typical change control process |  |  |
| * 1. outline the activities in a typical configuration management process (including planning, identification, control, status accounting and verification audit) |  |  |
| 1. **Understand resource, scheduling and optimisation in a project** |  |  |
| * 1. state the purpose of scheduling |  |  |
| * 1. state the purpose of critical path analysis |  |  |
| * 1. state the purpose of milestones |  |  |
| * 1. define the term ‘time boxing’ |  |  |
| * 1. outline options for resource optimisation (including resource levelling and resource smoothing) |  |  |
| * 1. define the term ‘procurement strategy’ |  |  |
| 1. **Understand project risk and issue management in the context of a project** |  |  |
| * 1. define the term ‘risk’ |  |  |
| * 1. explain the purpose of risk management |  |  |
| * 1. outline the stages of a typical risk management process (including identification, analysis, response and closure) |  |  |
| * 1. describe the use of risk registers |  |  |
| * 1. define the term ‘issue’ |  |  |
| * 1. outline the purpose of ‘issue management’ |  |  |
| * 1. differentiate between an issue and a risk |  |  |
| * 1. state the stages of an issue resolution process |  |  |
| 1. **Understand** **quality in the context of a project** |  |  |
| * 1. define the term ‘quality’ |  |  |
| * 1. outline the purpose of ‘quality management’ |  |  |
| * 1. define the term ‘quality planning’ |  |  |
| * 1. define the term ‘quality control’ |  |  |
| * 1. outline the purpose of ‘quality assurance’ |  |  |
| * 1. state the purpose of; decision gates, post project reviews, benefit reviews and project audits |  |  |
| 1. **Understand communication in the context of a project** |  |  |
| * 1. define the term ‘communication’ |  |  |
| * 1. outline the advantages of different communication methods (including face to face, physical and virtual) |  |  |
| * 1. outline the disadvantages of different communication methods (including face to face, physical and virtual) |  |  |
| * 1. outline the contents of a communication plan |  |  |
| * 1. explain the benefits, to a project manager, of a communication plan |  |  |
| 1. **Understand leadership and teamwork within a project** |  |  |
| * 1. define the term ‘leadership’ |  |  |
| * 1. explain how a project team leader can influence team performance |  |  |
| * 1. outline the challenges to a project manager when developing and leading a project team |  |  |
| * 1. outline how a project manager can use models to assist team development (including Belbin and Tuckman) |  |  |

**APPENDIX A (ii)**

# Evidence Matrix – APM Project Management Qualification (3 hour and 2 hour exams)

**Those areas that appear in green will not be examined in the 2 hour exam (PRINCE2 2017)**

|  |  |  |
| --- | --- | --- |
| **Syllabus learning outcomes and**  **assessment criteria** | **Evidence** | **Assessor comment** |
| 1. **Understand how organisations and projects are structured** |  |  |
| * 1. differentiate between types of permanent and temporary organisation structures (including functional, matrix, and project) |  |  |
| * 1. explain the way in which an organisational breakdown structure is used to create a responsibility assignment matrix |  |  |
| * 1. explain the role and key responsibilities of the project manager |  |  |
| * 1. differentiate between the responsibilities of the project manager and the project sponsor throughout the project |  |  |
| * 1. describe other roles within project management (including users, project team members, the project steering group/board and the product owner) |  |  |
| * 1. describe the functions and benefits of different types of project office (including project/programme/portfolio management office (PMO), embedded PMO, central PMO and hub-and-spoke PMO) |  |  |
| * 1. explain why aspects of project management governance are required (such as the use of; policies, regulations, functions, processes, procedures and delegated responsibilities) |  |  |
| 1. **Understand project life cycles** |  |  |
| * 1. differentiate between linear, iterative and hybrid life cycles |  |  |
| * 1. explain why projects are structured as phases in a linear life cycle |  |  |
| * 1. explain the differences between a project life cycle and an extended life cycle |  |  |
| * 1. outline the role of knowledge and information management to inform decision making |  |  |
| * 1. explain the benefits of conducting reviews throughout the life cycle (including decision gates, benefits reviews and audits) |  |  |
| * 1. explain why projects may close early |  |  |
| 1. **Understand the situational context of projects** |  |  |
| * 1. differentiate between projects and business as usual (BAU) |  |  |
| * 1. differentiate between project management, portfolio management and programme management |  |  |
| * 1. outline the relationship between programmes, projects and strategic change |  |  |
| * 1. describe situations where the use of programme management may be appropriate |  |  |
| * 1. describe situations where the use of portfolio management may be appropriate |  |  |
| * 1. explain tools and techniques used to determine factors which influence and impact projects (including PESTLE, SWOT and VUCA) |  |  |
| * 1. explain the impact of the legal and regulatory environment on projects (such as the impact on working conditions, risk management, governance and sustainability) |  |  |
| 1. **Understand communication within project management** |  |  |
| * 1. explain the benefits, to a project, of a communication plan |  |  |
| * 1. explain the relationship between stakeholder analysis and an effective communication management plan |  |  |
| * 1. state factors which can positively or negatively affect communication |  |  |
| * 1. state sources of conflict within a project |  |  |
| * 1. explain ways in which conflict can be addressed (such as Thomas Kilmann Conflict Mode Instrument) |  |  |
| * 1. explain how to plan and conduct negotiations (including ZOPA, BATNA and ‘Win Win’) |  |  |
| 1. **Understand the principles of leadership and teamwork** |  |  |
| * 1. explain how leadership impacts on team performance and motivation (using models such as Maslow, Herzberg and McGregor) |  |  |
| * 1. explain why it may be necessary to change leadership styles to effectively support the management of a project |  |  |
| * 1. describe the characteristics and benefits of effective teams and teamwork |  |  |
| * 1. explain factors which impact on the leadership of virtual teams |  |  |
| * 1. explain factors which influence the creation, development and leadership of teams (using models such as Belbin, Margerison- McCann, Myers-Briggs, Hackman, Tuckman, Katzenbach and Smith) |  |  |
| 1. **Understand planning for success** |  |  |
| * 1. explain the importance of a business case throughout the project life cycle |  |  |
| * 1. explain what is meant by benefits management (including identification, definition, planning, tracking and realisation) |  |  |
| * 1. explain investment appraisal techniques used by a project manager (including Internal Rate of Return (IRR) and Net Present Value (NPV)) |  |  |
| * 1. explain an information management process (including collection, storage, curation, dissemination, archiving and the destruction of information) |  |  |
| * 1. explain factors which would typically be reported on to help ensure successful project outcomes |  |  |
| * 1. explain the relationship between the deployment baseline and the development of a project management plan in linear and iterative life cycles |  |  |
| * 1. explain the importance of producing a project management plan |  |  |
| * 1. describe the typical contents of a project management plan |  |  |
| * 1. explain approaches to producing estimates (including parametric, analogous, analytical and Delphi) |  |  |
| * 1. explain the reasons for and benefits of re-estimating throughout the project life cycle |  |  |
| * 1. explain the relationship between stakeholder analysis, influence and engagement |  |  |
| * 1. explain the importance of managing stakeholder expectations to the success of the project |  |  |
| * 1. explain why a project manager would use earned value management |  |  |
| * 1. interpret earned value data (including variances and performance indexes) |  |  |
| * 1. explain the benefits of using the interpretation of earned value data |  |  |
| * 1. explain the role of contingency planning in projects |  |  |
| 1. **Understand project scope management** |  |  |
| * 1. define scope in terms of outputs, outcomes and benefits (including use of product, cost and work breakdown structures) |  |  |
| * 1. explain how to establish scope through requirements management processes (such as gather, analysis, justifying requirements, and baseline needs) |  |  |
| * 1. explain how to manage scope through configuration management processes (such as planning, identification, control, status accounting, and verification audit) |  |  |
| * 1. explain different stages of a typical change control process (such as request, initial evaluation, detailed evaluation, recommendation, update plans, and implement) |  |  |
| 1. **Understand schedule and resource optimisation** |  |  |
| * 1. describe ways to create and maintain a schedule (including critical path, and Gantt charts) |  |  |
| * 1. differentiate between critical path and critical chain as scheduling techniques |  |  |
| * 1. describe how resources are categorised and allocated to a linear life cycle schedule |  |  |
| * 1. describe how resources are categorised and allocated to an iterative life cycle schedule |  |  |
| * 1. differentiate between resource smoothing and resource levelling |  |  |
| * 1. differentiate between cost planning for iterative life cycles and cost planning for linear life cycles |  |  |
| 1. **Understand project procurement** |  |  |
| * 1. explain the purpose, typical content and importance of a procurement strategy |  |  |
| * 1. differentiate between different methods of supplier reimbursement (including fixed price, cost plus fee, per unit quantity, and target cost) |  |  |
| * 1. differentiate between different contractual relationships |  |  |
| * 1. explain a supplier selection process |  |  |
| 1. **Understand risk and issue management in the context of project management** |  |  |
| * 1. explain each stage in a risk management process (such as identification, analysis, response, and closure) |  |  |
| * 1. explain proactive and reactive responses to risk (such as avoid, reduce, transfer or accept and exploit, enhance, share and reject) |  |  |
| * 1. explain the benefits of risk management |  |  |
| * 1. explain the key aspects of issue management |  |  |
| 1. **Understand quality in the context of a project** |  |  |
| * 1. explain what is meant by quality planning |  |  |
| * 1. differentiate between quality control and quality assurance |  |  |

**APPENDIX A (iii)**

# Evidence Matrix – APM Project Professional Qualification 2nd Edition

|  |  |  |
| --- | --- | --- |
| **Syllabus learning outcomes and**  **assessment criteria** | **Evidence** | **Assessor comment** |
| **Unit 1 – Delivering projects through effective leadership and management** |  |  |
| 1. **Provide visionary leadership for a project** |  |  |
| * 1. Critically evaluate ethical, flexible, inspirational and collaborative approaches to the leadership of others in evolving situations. |  |  |
| * 1. Critically analyse ways in which to engage with a diverse range of individuals and teams to agree aims and objectives which are aligned to a project’s strategic goals. |  |  |
| * 1. Critically evaluate environments which encourage and sustain powered and high-performance teams. |  |  |
| 1. **Establish and develop teams to achieve project aims and objectives** |  |  |
| * 1. Critically evaluate the tools, techniques and leadership behaviours which can establish and sustain trust, confidence and collaboration to maintain change momentum within a project. |  |  |
| * 1. Critically analyse how to respond to changes in a project’s environment to help ensure individual and team requirements and interests are maintained and supported. |  |  |
| * 1. Critically analyse tools and techniques which are used to develop and maintain an effective technique. |  |  |
| * 1. Critically evaluate the role of mentoring and feedback to recognise and discuss individual contributions. |  |  |
| * 1. Critically evaluate the relationship between performance management, and the team development cycle and motivation. |  |  |
| * 1. Critically evaluate the extent to which conflict could be used to improve individual and team performance. |  |  |
| 1. **Maintain an engaged and constructive team through a positive approach to conflict management** |  |  |
| * 1. Critically evaluate why and how to act with objectivity, impartiality and honesty when determining the cause of conflict. |  |  |
| * 1. Critically analyse appropriate actions to take which help ensure conflict is managed and resolved, giving respect to each party and with the support to others where required. |  |  |
| * 1. Critically evaluate ways in which to address challenges, issues and conflict to reduce any negative impact on a project |  |  |
| * 1. Critically analyse ways in which to maintain an awareness of challenges, issues and conflict within a project team. |  |  |
| 1. **Resolve problems taking a logical approach to the problem-solving process.** |  |  |
| * 1. Demonstrate an awareness of the impact of problems on the achievement of a project’s objectives. |  |  |
| * 1. Demonstrate how to obtain a valid, reliable and timely information to resolve problems. |  |  |
| * 1. Demonstrate a logical and recognised approach to problem-solving. |  |  |
| * 1. Demonstrate an awareness of the relationship between problem-solving and decision-making. |  |  |
| 1. **Make decisions which support the objective of the project** |  |  |
| * 1. Demonstrate how to make decision-making hierarchies within a project. |  |  |
| * 1. Demonstrate an understanding of how decision-making in a project relates to the organisation’s governance structure. |  |  |
| * 1. Demonstrate a logical and recognised approach to decision-making. |  |  |
| 1. **Communicate effectively with stakeholders to achieve a project’s objectives.** |  |  |
| * 1. Critically analyse ways in which to effectively and appropriately communicate so that the relationship between a project’s vision, values and objectives, and organisational strategic objectives are understood by stakeholders. |  |  |
| * 1. Critically evaluate ways in which to communicate throughout a project where interaction with the project team and wider environment is necessary to deliver a project’s objectives. |  |  |
| * 1. Demonstrate effective verbal communication to provide information to, and gain information from, stakeholders. |  |  |
| 1. **Negotiate effectively with stakeholders to achieve a project’s objectives** |  |  |
| * 1. Demonstrate how to effectively negotiate with internal stakeholders. |  |  |
| * 1. Demonstrate how to effectively negotiate with external stakeholders. |  |  |
| **Unit 2 – Delivering projects through effective governance and oversight** |  |  |
| 1. **Establish and maintain the governance structure of a project to ensure alignment to organisational practice.** |  |  |
| * 1. Critically evaluate appropriate structures and hierarchies for a project which ensure alignment with the organisation’s structure and are based on the lifecycle to be employed. |  |  |
| * 1. Critically evaluate why and how to establish roles, responsibilities and relationships within a project ensuring levels of authority and accountability are accepted by individuals within the project team. |  |  |
| * 1. Critically evaluate ways in which to establish and maintain the reporting hierarchies and structure during the life of a project. |  |  |
| 1. **Use information to inform reviews and help manage deviations from a project plan.** |  |  |
| * 1. Critically evaluate reliable and valid information to review a range of factors at key stages in a project based on the life cycle employed. |  |  |
| * 1. Critically evaluate the importance of aligning reviews with organisational, legal and regulatory requirements. |  |  |
| * 1. Critically analyse situations, and how to resolve them, where deviations to a project plan may occur. |  |  |
| * 1. Critically analyse reasons for accurately documenting deviations from a project plan. |  |  |
| 1. **Manage change control processes and protocols** |  |  |
| * 1. Critically evaluate the benefits and features which support the implementation and maintenance of an effective change control process. |  |  |
| * 1. Critically evaluate ways in which to capture, record and review proposed options for change to determine the impact on a project’s scope and objectives. |  |  |
| * 1. Critically evaluate why and how to implement and manage approved changed to a project. |  |  |
| * 1. Critically evaluate why and how a trend analysis is used to add value to the management of a project and to inform learning and knowledge management. |  |  |
| 1. **Manage stakeholder influence, interest and engagement for the benefit of the project** |  |  |
| * 1. Critically analyse techniques to determine stakeholder power, influence and interest. |  |  |
| * 1. Critically evaluate why and how to develop and implement a stakeholder engagement and communication plan(s) to engage and influence stakeholders. |  |  |
| * 1. Critically analyse ways in which to monitor and amend a stakeholder engagement and communication plan(s) using valid and reliable information from a range of stakeholders. |  |  |
| * 1. Critically evaluate relevant feedback from stakeholders to determine the potential impact on a project based on the life cycle employed. |  |  |
| * 1. Critically evaluate why and how to provide relevant stakeholders with financial reports during and at closure of a project |  |  |
| 1. **Deliver the intended benefits of a project** |  |  |
| * 1. Critically evaluate the importance of confirming the intended benefits are measurable, meaningful to stakeholders and relate to an organisation’s strategic objectives. |  |  |
| * 1. Critically evaluate ways in which to develop a benefits management strategy which records priorities, timescales and responsibilities. |  |  |
| * 1. Critically evaluate the importance of prioritising the achievements benefits based on their level of contribution to an organisation’s strategic objective. |  |  |
| * 1. Critically evaluate ways in which to create a benefits realisation plan considering funding, tracking, monitoring and appropriate indicators and scheduling. |  |  |
| * 1. Critically evaluate ways in which to maximise achievement of the planned benefit. |  |  |
| **Unit 3 – Delivering projects through effective planning and control** |  |  |
| 1. **Manage project costs within agreed budgets which supports management of a project.** |  |  |
| * 1. Critically evaluate cost tracking tools and techniques in order to manage budgets based on the business case and an understanding of cost estimates. |  |  |
| * 1. Critically evaluate the importance of cashflow and cashflow forecasting for a project to ensure availability of funds when required and based on the life cycle employed. |  |  |
| * 1. Critically evaluate why and how to establish cost trends and monitor the financial performance of a project. |  |  |
| * 1. Critically evaluate the importance of cost analysis and its role in adjusting cost management processes, budget allocations and updating final costs. |  |  |
| * 1. Critically evaluate the importance of completing all financial transactions before project closure. |  |  |
| 1. **Respond to risks to minimise threats and increase opportunities.** |  |  |
| * 1. Critically analyse qualitive and quantitative approaches to risk identification and analysis throughout a project and based on the lifecycle employed. |  |  |
| * 1. Critically evaluate why and how to respond and plan responses to risks. |  |  |
| * 1. Critically evaluate why and how to implement appropriate responses to risks. |  |  |
| * 1. Critically evaluate the importance of reviewing how risks were managed during a project, the implications of these risks for future projects and managing all open risks at project closure. |  |  |
| 1. **Respond to issues in a way that supports the management of a project.** |  |  |
| * 1. Critically evaluate why and how to record, and plan responses to resolve issues. |  |  |
| * 1. Critically evaluate how to implement appropriate responses to issues. |  |  |
| * 1. Critically evaluate the importance of reviewing how issues were resolved during a project, and the implications for future projects. |  |  |
| 1. **Develop and implement an integrated plan to support the management of a project.** |  |  |
| * 1. Critically analyse ways in which to document the outcomes of a project’s planning process. |  |  |
| * 1. Critically analyse ways in which to balance the fundamental components of scope, schedule, resource, budgets, risks and quality to meet project requirements. |  |  |
| * 1. Critically evaluate the purpose of an integrated plan. |  |  |
| * 1. Critically evaluate why and how to monitor the progress of a project against the integrated plan. |  |  |
| * 1. Critically analyse why and how to adjust an integrated plan based on the progress of a project. |  |  |

**APPENDIX A (iv)**

# Evidence Matrix – Project Risk Management Certificate Level 1

|  |  |  |
| --- | --- | --- |
| ***Project Risk***  ***Analysis and Management (PRAM) Guide 2nd edition*****section reference** | **Evidence** | **Assessor comment** |
| 1. **General** |  |  |
| a) Define project risk management |  |  |
| b) Define project risk |  |  |
| c) Define risk event |  |  |
| **2. Benefits** |  |  |
| a) List benefits of risk management |  |  |
| b) List possible threats to effective  risk management |  |  |
| **3. Principles** |  |  |
| a) Define threat and opportunity |  |  |
| **4. Process** |  |  |
| a) Define the PRAM process |  |  |
| 4.1 Initiate  a) Define project objectives |  |  |
| b) Define scope |  |  |
| c) Define success criteria |  |  |
| d) Define stakeholder and  stakeholder analysis |  |  |
| 4.2 Identify |  |  |
| * 1. Assess |  |  |
| 4.4 Plan responses |  |  |
| **5. Organisation and control** |  |  |
| a) Define the risk management  plan |  |  |
| b) Define roles and responsibilities of those involved in the risk management process |  |  |
| c) Define the contents of a risk register |  |  |
| d) Define the contents of a risk report |  |  |
| e) Define risk reviews |  |  |
| f) Define project contingency /  management reserve |  |  |
| **6. Behaviour** |  |  |
| a) Define risk attitude |  |  |
| b) Define risk-averse |  |  |
| c) Define risk-tolerant |  |  |
| d) Define risk-neutral |  |  |
| e) Define risk-seeking |  |  |
| f) Define the triple strand |  |  |
| g) Define situational factors |  |  |
| h) Define the availability heuristic |  |  |
| i) Define the representativeness  heuristic |  |  |
| j) Define the anchoring and adjustment heuristic |  |  |
| k) Define the confirmation trap |  |  |
| l) Define the affect heuristic |  |  |
| m) Define emotion |  |  |
| n) Define groupthink |  |  |
| o) Define the “Moses factor” |  |  |
| p) Define risky and cautious shift |  |  |
| q) Define cultural conformity |  |  |
| r) Define power distance |  |  |
| s) Define uncertainty avoidance |  |  |
| **7. Application** |  |  |
| a) List the main steps of  introduction of risk  management to an organisation |  |  |
| **8.** |  |  |
| * 1. Risk identification techniques   a) Define risk identification techniques |  |  |
| 8.2 Qualitative risk assessment  a) Define:  i. Probability / impact assessment  ii. Structured risk descriptions, i.e. cause – risk - effect  iii. Risk breakdown structures |  |  |
| * 1. Quantitative risk assessment   a) Define quantitative risk assessment techniques |  |  |
| 8.4 Risk response  a) Define risk response techniques |  |  |

**APPENDIX A (v)**

# Evidence Matrix – Project Risk Management Certificate Level 2

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| --- | --- | --- |
| ***Project Risk***  ***Analysis and Management (PRAM) Guide 2nd edition*****section reference** | **Evidence** | **Assessor comment** |
| 1. **Introduction** |  |  |
| Not included. Covered in level 1. |  |  |
| 1. **Benefits** |  |  |
| a) Explain benefits of risk management and how they apply at different levels within an organisation |  |  |
| b) Explain possible threats to effective risk management |  |  |
| **3. Principles** |  |  |
| a) Explain the concept of risk as threat and opportunity |  |  |
| b) Explain the differences between risk events and project risk |  |  |
| **4. Process** |  |  |
| a) Demonstrate understanding of the PRAM process and apply it to a case study |  |  |
| b) Demonstrate application of scaling project risk management to a case study |  |  |
| 4.1 Initiate  a) Identify project objectives, scope and success criteria |  |  |
| b) Carry out stakeholder analysis |  |  |
| 4.2 Identify  a) Identify risks from a case study, in the form cause - risk event - effect |  |  |
| 4.3 Assess  a) Explain the difference between qualitative and quantitative risk assessment and when they should be applied |  |  |
| b) Assess risks qualitatively |  |  |
| c) Assess risks quantitatively |  |  |
| d) Explain the need to prioritise project risks |  |  |
| * 1. Plan responses   a) Suggest assignment of risk owners based on a case study |  |  |
| b) Plan response strategies for differing threats and opportunities identified from a case study |  |  |
| c) Calculate cost/benefit analysis of risk responses |  |  |
| **5. Organisation and control** |  |  |
| a) Produce a risk management plan |  |  |
| b) Explain, and distinguish between, the differing roles in project risk management |  |  |
| c) Create a risk register |  |  |
| d) Explain the importance of continued risk ownership and regular risk reviews |  |  |
| e) Explain methods for determining levels of contingency on projects |  |  |
| f) Explain the importance of post-project reviews, lessons learnt, and how to obtain information for future risk management |  |  |

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| **6. Behaviour** |  |  |
| a) Explain how human factors (individual and group risk attitudes) could generically have an effect on the stages of the PRAM process and the effectiveness of risk management |  |  |
| b) Explain how situational assessments, heuristics, feelings/emotions and/or group biases can have an effect on the risk management process and how they can be overcome. Apply to a case study |  |  |
| **7. Application of PRAM** |  |  |
| a) Describe ways to introduce risk management to a project, including getting buy-in from senior management |  |  |
| **8.** |  |  |
| * 1. Risk identification techniques   a) Explain the different identification techniques, their advantages and disadvantages |  |  |
| b) Use the appropriate risk identification technique for the situation. |  |  |
| * 1. Qualitative risk assessment   a) Define project specific probability and impact scales |  |  |
| b) Use a 5x5 probability/impact grid to prioritise risks |  |  |
| * 1. Quantitative risk assessment   a) Explain Probability distribution functions and demonstrate their use |  |  |
| b) Explain the uses and benefits of risk assessment techniques |  |  |
| c) Explain the theory behind Monte Carlo Analysis and its application on projects |  |  |
| d) Interpret data from a Monte Carlo analysis |  |  |
| e) Calculate mean, median, mode, variance |  |  |
| f) Explain criticality and cruciality |  |  |
| g) Explain net present value (NPV) and internal rate of return (IRR) in risk assessment |  |  |
| h) Use a decision tree to decide the best option |  |  |
| i) Use sensitivity analysis to determine key risk drivers |  |  |
| j) Calculate expected value of threats |  |  |
| * 1. Risk response   a) Suggest the most appropriate responses for a variety of threats and opportunities |  |  |