
Model Curriculum

Aerospace Design Testing Engineer – Mechanical Systems

SECTOR: AEROSPACE AND AVIATION
SUB-SECTOR: DESIGN AND DEVELOPMENT
OCCUPATION: AEROSPACE TESTING, VERIFICATION AND VALIDATION
REF ID: AAS/Q3209, V1.0
NSQF LEVEL: 6



Certificate

**CURRICULUM COMPLIANCE TO
QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS**
is hereby issued by the

AEROSPACE & AVIATION SECTOR SKILL COUNCIL (AASCC)

for the

MODEL CURRICULUM

Complying to National Occupational Standards of

Job Role/Qualification Pack : **'Aerospace Design Testing Engineer – Mechanical Systems'** QP No. **'AAS/Q3209' NSQF level 6'**

Date of issuance : 22 December 2017
Valid up to : 21 December 2018
** Valid up to the next review date of the Qualification Pack*



(Authorised signatory)
Aerospace & Aviation Sector Skill Council (AASCC)

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Aerospace Design Testing Engineer – Mechanical Systems

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Aerospace Design Testing Engineer – Mechanical Systems”, in the “Aerospace and Aviation” Sector/Industry and aims at building the following key competencies amongst the learner

| | | | |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------|
| Program Name | Aerospace Design Testing Engineer – Mechanical Systems | | |
| Qualification Pack Name & Reference ID. | AAS/Q3209 | | |
| Version No. | 1.0 | Version Update Date | 10 – 11 - 2017 |
| Pre-requisites to Training | Pursuing final year Bachelor’s degree (for training purpose) Bachelor’s degree Degree in Mechanical and allied engineering branches (for Job entry) | | |
| Training Outcomes | <p>After completing this programme, participants will be able to</p> <ul style="list-style-type: none"> • Develop test plans, procedures, test reports and carrying out the tests of company products and services • Ensure company products and services comply with requirements of <ul style="list-style-type: none"> • customer • regulatory and • company • Conduct research in emerging test technologies to improve ways to perform testing. • Interface with project teams, product design teams, and other technical teams to define and implement test engineering solutions • Acquire the analytic ability for attention to detail and a systematic thought process • Achieve basic communication skills and good inter-personal skills. • Work well in a team | | |

This course encompasses 5 out of 5 National Occupational Standards (NOS) of “Aerospace Design Testing Engineer – Mechanical Systems” Qualification Pack issued by “Aerospace and Aviation Sector Skill Council (AASSC)”.

| Sr. No. | Module | Key Learning Outcomes | Equipment Required |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| 1 | <p>Create documents for knowledge sharing Theory Duration (hh:mm) 12:00 Practical Duration (hh:mm) 36:00 Corresponding NOS Code SSC/N0703</p> | <p>Candidates will be able to</p> <ul style="list-style-type: none"> • establish with appropriate people the purpose, scope, formats and target audience for the documents • access existing documents, language standards, templates and documentation tools from the organization’s knowledge base • liaise with appropriate people to obtain and verify the information required for the documents • confirm the content and structure of the documents with appropriate people • create documents using standard templates and agreed language standards • review documents with appropriate people and incorporate their inputs • submit documents for approval by appropriate people • publish documents in agreed formats • update the organization’s knowledge base with the documents • comply with the organization’s policies, procedures and guidelines when • creating documents for knowledge sharing | <p>White/Black board/ Chart paper, Markers/Computer and projector, trainer’s guide, student handbook</p> |
| 2 | <p>Designing test rigs for aerospace components / systems Theory Duration (hh:mm) 99:00 Practical Duration (hh:mm) 125:00 Corresponding NOS Code AAS/N 3211</p> | <p>Candidates will be able to</p> <ul style="list-style-type: none"> • collect information related to concept, specification, resources etc • carry out feasibility analysis, concept, preliminary and detail designs • carry out load and stress analysis • design and develop model as per required scale, and rigs for testing to define quality standards, keeping costs and schedule in mind • calibrate and qualify rigs, tools and associated equipment • document the processes and take approvals from the authority • undertake training, where necessary, in support of the above duties, to ensure that safe working practices are observed. • provide maintenance and preventative maintenance support to maximise the uptime of automated and manual production test rigs. | <p>White/Black board/ Chart paper, Markers/Computer and projector, trainer’s guide, student handbook</p> |

| Sr. No. | Module | Key Learning Outcomes | Equipment Required |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| | | <ul style="list-style-type: none"> design for manufacture and assembly (DFMA) and generate test plans interface with internal contacts, decompose information from requirements and Statements of Work (SOW) to formulate basic test approaches review standards and regulations to assess the impact on the test plan archive data and reports as required | |
| 3 | <p>Perform testing and validation of aerospace components / mechanical systems Theory Duration (hh:mm) 103:00 Practical Duration (hh:mm) 121:00 Corresponding NOS Code AAS/N3209</p> | <p>Candidates will be able to</p> <ul style="list-style-type: none"> study blueprints, schematics, manuals, or other specifications to prepare the test plans, cases, procedures and conformity to regulatory requirements perform CAD modelling skill for conceptual design and development of test rig and loading systems for structural tests create and review the CAD drawings of the test article and the test systems use classic, conventional and Finite Element (FE) techniques for evaluating the test system design and ensure safety aspects for test operations perform special test procedures as required to support failure investigation consider the relative costs and benefits of potential actions to choose the most appropriate test system design for the tests perform instrumentation activities such as mounting the sensors (strain gauge /optic gauges) and wiring of the sensors on the test article for strain / load measurements during the tests coordinate with the team in calibration of testing instruments and installed or repaired equipment to set specifications identify measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system conduct root cause analysis and define and document corrective action plan for non-conformity to reduce scrap, minimize rework, reduce cost and improve quality to meet all requirements | <p>White/Black board/ Chart paper, Markers/Computer and projector, trainer's guide, student handbook</p> |

| Sr. No. | Module | Key Learning Outcomes | Equipment Required |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| | | <ul style="list-style-type: none"> maintain equipment logs that record performance problems, repairs, calibrations, or tests. conduct reallocation, disposition or refurbishment of test assets interface with internal contacts, decompose information from requirements and Statements of Work (SOW) to formulate basic test approaches review standards and regulations to assess the impact on the test plan gathers information from applicable sources to define test requirements, facilities and test environments for simple tests review test data for accuracy, quality and/or fidelity prior to delivery to customer and take appropriate action based upon test data results prepare test and configuration documentation preserve and monitor test hardware participate in test readiness reviews, safety reviews, test plan reviews and test case reviews configure software for data acquisition and analysis prepare daily execution plans for effective use of all test resources prepare test reports and provide inputs based on lessons learned and performance metrics to improve future testing archive data and reports as required | |
| 4 | <p>Work Effectively in a Team Theory Duration (hh:mm) 14:00 Practical Duration (hh:mm) 18:00 Corresponding NOS Code AAS/N0503</p> | <p>Candidates will be able to</p> <ul style="list-style-type: none"> display courteous and helpful behaviour at all times take opportunities to enhance the level of assistance offered to colleagues meet all reasonable requests for assistance within acceptable workplace timeframes complete allocated tasks as required seek assistance when difficulties arise use questioning techniques to clarify instructions or responsibilities identify and display a non - discriminatory attitude in all contacts with customers and other staff members observe appropriate dress code and presentation as required by the workplace, job role and level of customer contact | <p>White/Black board/ Chart paper, Markers/Computer and projector, trainer's guide, student handbook</p> |

| Sr. No. | Module | Key Learning Outcomes | Equipment Required |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | <ul style="list-style-type: none"> • follow personal hygiene procedures according to organisational policy and relevant legislation • interpret, confirm and act on workplace information, instructions and procedures relevant to the particular task • interpret, confirm and act on legal requirements in regard to anti-discrimination, sexual harassment and bullying • ask questions to seek and clarify workplace information • plan and organise daily work routine within the scope of the job role • prioritise and complete tasks according to required timeframes • identify work and personal priorities and achieve a balance between competing priorities | |
| 5 | <p>Maintain organisational safety and information security Theory Duration (hh:mm) 24:00 Practical Duration (hh:mm) 24:00 Corresponding NOS Code AAS/N0502</p> | <p>Candidates will be able to:</p> <ul style="list-style-type: none"> • comply with the organization's IT policies and procedures for safety of data and information • adhere to the organisation's policies pertaining to accesses granted, usage, modification of any information or recording or destruction of information • report any identified breaches of data or information in any form to the authority as described by the organization • report any theft of intellectual property according to the organisation policy • record, control the document version and take appropriate approvals for the documents, plans or drawings according to organisational hierarchy • follow your organization's safety procedures at workplace and act promptly, calmly, and efficiently in case of disruption • recommend improvement related to safety and security at the workplace • comply to any health and safety requirements set by an organisation | <p>White/Black board/ Chart paper, Markers/Computer and projector, trainer's guide, student handbook, Charts regarding health & hygiene, fire-fighting, first aid</p> |
| | <p>Total Duration (hh:mm) 576:00 Theory Duration (hh:mm) 252:00 Practical Duration (hh:mm) 324:00</p> | <p>Unique equipment used</p> <ul style="list-style-type: none"> • 2D/3D CAD software • Analysis software • Relevant cross sectional/working models | |

Grand Total Course Duration: 576 Hours, 0 Minutes

(This syllabus/ curriculum has been approved by [Aerospace and Aviation Sector Skill Council](#))

Trainer Prerequisites for Job role: “Aerospace Design Testing Engineer – Mechanical Systems” mapped to Qualification Pack: “AAS/Q3209”

| Sl. No. | Area | Details |
|---------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Description | To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “AAS/Q3209”. |
| 2 | Personal Attributes | Aptitude for conducting training, and pre/ post work to ensure competent, employable candidates at the end of the training. Strong communication skills, interpersonal skills, ability to work as part of a team; a passion for quality and for developing others; well organised and focused, eager to learn and keep oneself updated with the latest in the mentioned field. |
| 3 | Minimum Educational Qualifications | Diploma/Bachelors degree in Mechanical and allied engineering branches. |
| 4a | Domain Certification | Statutory Certificate from Aerospace and Aviation Sector Skill Council (AASSC) for Job Role: “ <u>Aerospace Design Testing Engineer – Mechanical Systems</u> ” mapped to QP: “AAS/Q3209”. Minimum accepted score for domain certification will be 80%. |
| 4b | Platform Certification | Recommended that the Trainer is certified for the job role “Trainer” mapped to the Qualification Pack : “MEP/Q 0102”. Minimum accepted percentage as per respective SSC guidelines is 80%. |
| 5 | Experience | 10 yrs for Diploma/5 yrs for Bachelor degree holder. |

Annexure : Assessment Criteria

Job Role : Aerospace Design Testing Engineer – Mechanical systems

Qualification Pack : AAS/Q3209

Sector Skill Council : Aerospace and Aviation Sector Skill Council

Guidelines for Assessment

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.
6. To pass the Qualification Pack, every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment.
7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

| Compulsory NOS Total Marks: 100 | | Marks Allocation | | | |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|--------|--------|------------------|
| Assessment outcomes | Assessment Criteria for outcomes | Total Marks | Out of | Theory | Skills Practical |
| 1. SSC/N0703 Create documents for knowledge sharing | PC1. establish with appropriate people the purpose, scope, formats and target audience for the documents | 100 | 5 | 5 | 0 |
| | PC2. access existing documents, language standards, templates and documentation tools from your organization's knowledge base | | 15 | 0 | 15 |
| | PC3. liaise with appropriate people to obtain and verify the information required for the documents | | 5 | 5 | 0 |
| | PC4. confirm the content and structure of the documents with appropriate people | | 10 | 0 | 10 |
| | PC5. create documents using standard templates and agreed language standards | | 25 | 0 | 25 |
| | PC6. review documents with appropriate people and incorporate their inputs | | 10 | 0 | 10 |
| | PC7. submit documents for approval by appropriate people | | 5 | 5 | 0 |
| | PC8. publish documents in agreed formats | | 5 | 5 | 0 |

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|--|-------------------------------------------------------------------------------------------------------------------------|--------------|------------|-----------|-----------|
| | PC9. update your organization's knowledge base with the documents | | 5 | 5 | 0 |
| | PC10. comply with your organization's policies, procedures and guidelines when creating documents for knowledge sharing | | 15 | 0 | 15 |
| | | Total | 100 | 25 | 75 |

| Compulsory NOS Total Marks: 100 | | Marks Allocation | | | |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------|--------|------------------|
| Assessment outcomes | Assessment Criteria for outcomes | Total Marks | Out of | Theory | Skills Practical |
| 2. AAS/N3211 Designing test rigs for aerospace components / systems | PC1. collect information related to concept, specification, resources etc | 100 | 10 | 4 | 6 |
| | PC2. carry out feasibility analysis, concept, preliminary and detail designs | | 8 | 4 | 4 |
| | PC3. carry out load and stress analysis | | 10 | 4 | 6 |
| | PC4. design and develop test rigs as per required scale, for testing to define quality standards, keeping costs and schedule in mind | | 8 | 4 | 4 |
| | PC5. perform CAD modelling skill for conceptual design and development of test rig and loading systems for structural tests quality standards, keeping costs and schedule in mind | | 8 | 4 | 4 |
| | PC6. create and review the CAD drawings of the test article and the test systems | | 8 | 4 | 4 |
| | PC7. calibrate and qualify rigs, tools and associated equipment | | 6 | 3 | 3 |
| | PC8. document the processes and take approvals from the authority | | 6 | 3 | 3 |
| | PC9. undertake training, where necessary, in support of the above duties, to ensure that safe working practices are observed. | | 6 | 3 | 3 |
| | PC10. provide maintenance and preventative maintenance support to maximise the uptime of automated and manual production test rigs. | | 6 | 3 | 3 |
| | PC11. design for manufacture and assembly (DFMA) and generate test plans | | 6 | 3 | 3 |
| | PC12. interface with internal contacts, decompose information from requirements and Statements of Work (SOW) to formulate basic test approaches | | 6 | 3 | 3 |

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|--|-----------------------------------------------------------------------------|--|------------|-----------|-----------|
| | PC13 review standards and regulations to assess the impact on the test plan | | 6 | 3 | 3 |
| | PC14. archive data and reports as required | | 6 | 3 | 3 |
| | Total | | 100 | 48 | 52 |

| Compulsory NOS Total Marks: 100 | | Marks Allocation | | | |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------|---------------|-------------------------|
| Assessment outcomes | Assessment Criteria for outcomes | Total Marks | Out of | Theory | Skills Practical |
| 3. AAS/N3209 Perform testing and validation of mechanical systems | PC1. study blueprints, schematics, manuals, or other specifications to prepare the test plans, cases, procedures and conformity to regulatory requirements | 100 | 5 | 2 | 3 |
| | PC2. use classic, conventional and Finite Element (FE) techniques for evaluating the test system design and ensure safety aspects for test operations | | 4 | 2 | 2 |
| | PC3. perform special test procedures as required to support failure investigation | | 4 | 2 | 3 |
| | PC4. consider the relative costs and benefits of potential actions to choose the most appropriate test system design for the tests | | 4 | 2 | 3 |
| | PC5. develop process sheet for strain gauging and wiring process inspection sheet for gauged sensors | | 4 | 2 | 2 |
| | PC6. perform instrumentation activities such as mounting the sensors (strain gauge /optic gauges) and wiring of the sensors on the test article for strain / load measurements during the tests | | 4 | 2 | 2 |
| | PC7. coordinate with the team in calibration of testing instruments and installed or repaired equipment to set specifications | | 4 | 2 | 2 |
| | PC8. identify measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system | | 4 | 2 | 2 |

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| PC9. conduct root cause analysis and define and document corrective action plan for non-conformity to reduce scrap, minimize rework, reduce cost and improve quality to meet all requirements | 4 | 2 | 2 |
| PC10. Maintain equipment logs that record performance problems, repairs, calibrations, or tests. | 4 | 2 | 2 |
| PC11. conduct reallocation, disposition or refurbishment of test assets | 5 | 2 | 3 |
| PC12. interface with internal contacts, decompose information from requirements and Statements of Work (SOW) to formulate basic test approaches | 5 | 2 | 3 |
| PC13. review standards and regulations to assess the impact on the test plan | 5 | 2 | 3 |
| PC14. gathers information from applicable sources to define test requirements, facilities and test environments for simple tests | 5 | 2 | 3 |
| PC15. review test data for accuracy, quality and/or fidelity prior to delivery to customer and take appropriate action based upon test data results | 5 | 2 | 3 |
| PC16. prepare test and configuration documentation | 5 | 2 | 3 |
| PC17. preserve and monitor test hardware | 5 | 2 | 3 |
| PC18. participate in test readiness reviews, safety reviews, test plan reviews and test case reviews | 4 | 2 | 2 |
| PC19. configure software for data acquisition and analysis | 5 | 2 | 3 |
| PC20. prepare daily execution plans for effective use of all test resources | 5 | 2 | 3 |
| PC21. prepare test reports and provide inputs to lessons learned and performance metrics to improve future testing | 5 | 2 | 3 |
| PC22. archive data and reports as required | 5 | 2 | 3 |
| Total | 100 | 46 | 54 |

| Compulsory NOS Total Marks: 100 | | Marks Allocation | | | |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------|------------|-----------|------------------|
| Assessment outcomes | Assessment Criteria for outcomes | Total Marks | Out of | Theory | Skills Practical |
| 4. AAS/N0503 Work effectively in a team | PC1. display courteous and helpful behaviour at all times | 100 | 6 | 3 | 3 |
| | PC2. take opportunities to enhance the level of assistance offered to colleagues | | 7 | 3 | 4 |
| | PC3. meet all reasonable requests for assistance within acceptable workplace timeframes | | 6 | 3 | 3 |
| | PC4. complete allocated tasks as required | | 6 | 3 | 3 |
| | PC5. seek assistance when difficulties arise | | 7 | 3 | 4 |
| | PC6. use questioning techniques to clarify instructions or responsibilities | | 6 | 3 | 3 |
| | PC7. identify and display a non-discriminatory attitude in all contacts with customers and other staff members | | 6 | 3 | 3 |
| | PC8. observe appropriate dress code and presentation as required by the workplace, job role and level of customer contact | | 7 | 3 | 4 |
| | PC9. follow personal hygiene procedures according to organisational policy and relevant legislation | | 7 | 3 | 4 |
| | PC10. interpret, confirm and act on workplace information, instructions and procedures relevant to the particular task | | 7 | 3 | 4 |
| | PC11. interpret, confirm and act on legal requirements with regards to anti-discrimination, sexual harassment and bullying | | 7 | 3 | 4 |
| | PC12. ask questions to seek and clarify workplace information | | 7 | 3 | 4 |
| | PC13. plan and organise daily work routine within the scope of the job role | | 7 | 3 | 4 |
| | PC14. prioritise and complete tasks according to required timeframes | | 7 | 3 | 4 |
| | PC15. identify work and personal priorities and achieve a balance between competing priorities | | 7 | 3 | 4 |
| Total | | | 100 | 45 | 55 |

| Compulsory NOS Total Marks: 100 | | Marks Allocation | | | |
|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------|--------|--------|------------------|
| Assessment outcomes | Assessment Criteria for outcomes | Total Marks | Out of | Theory | Skills Practical |
| 5. AAS/N3201 Organisational safety and information security | PC1. comply with your organisation's IT policies and procedures for safety of data and information | | 10 | 5 | 5 |



| | | | | | |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|-----------|-----------|
| | PC2. adhere to the organisation's policies pertaining to accesses granted, usage, modification of any information or recording or destruction of information | 100 | 10 | 5 | 5 |
| | PC3. report any identified breaches of data or information in any form to the authority as described by the organisation | | 10 | 5 | 5 |
| | PC4. report any theft of intellectual property according to the organisation policy | | 20 | 10 | 10 |
| | PC5. record, control the document version and take appropriate approvals for the documents, plans or drawings according to organisational hierarchy | | 10 | 5 | 5 |
| | PC6. follow your organisation's safety procedures at workplace and act promptly, calmly, and efficiently in case of disruption | | 20 | 10 | 10 |
| | PC7. recommend improvement related to safety and security at the workplace | | 10 | 5 | 5 |
| | PC8. comply to any health and safety requirements set by an organisation | | 10 | 5 | 5 |
| | Total | | 100 | 50 | 50 |