

DIPLOMA IN IT SOFTWARE DEVELOPMENT XISD6319 WORK INTEGRATED LEARNING MODULE MANUAL 2022 (First Edition 2013)

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1. Introduction

An essential part of The Independent Institute of Education (The IIE) qualifications is to prepare students for the World of Work. You are prepared for your future career in all WIL modules by either simulations, case studies or work placements.

The key differences between WIL modules and all other modules in a qualification are that, in the WIL module, you need to use all the knowledge and skills that you have developed in all of your modules up to that point, and, further develop your abilities to reflect on yourself and your peers.

2. The Purpose of WIL

The purpose of having a WIL module in a qualification is to bring together all the knowledge and skills gained into one consolidated project thereby enabling you, the student, to integrate what you have learnt in several modules and demonstrate that you are able to apply it to solve a workplace type problem. Through the WIL Modules, additional attention can be given to what SAQA calls Critical Crossfield Outcomes (CCFOs) or what is now more generally known internationally as global competencies.

These include:

- **CCFO1**: Identify and solve problems in which responses demonstrate that responsible decisions using critical and creative thinking have been made.
- **CCFO2**: Work effectively with others as a member of a team, group, organisation, community.
- **CCFO3**: Organise and manage oneself and one's activities responsibly and effectively.
- **CCFO4**: Collect, analyse, organise and critically evaluate information.
- **CCFO5**: Communicate effectively using visual, mathematical and/or language skills in the modes of oral and/or written presentation.
- **CCFO6**: Use science and technology effectively and critically, showing responsibility towards the environment and health of others.
- **CCFO7**: Demonstrate an understanding of the world as a set of related systems by recognising that problem-solving contexts do not exist in isolation.
- **CCFO8**: In order to contribute to the full personal development of each learner and the social and economic development of the society at large, it must be the underlying intention of any programme of learning to make an individual aware of the importance of:
 - reflecting on and exploring a variety of strategies to learn more effectively;
 - participating as responsible citizens in the life of local, national and global communities;
 - being culturally and aesthetically sensitive across a range of social contexts:
 - exploring education and career opportunities; and

developing entrepreneurial opportunities.

The application of CCFOs or global competencies is largely context and discipline dependent.

3. WIL Role Players

WIL involves the following role players:

- The <u>student</u> the student is expected to attend all scheduled sessions (in person or in the case of distance students remotely), to meet deadlines and collect and prepare evidence aligned to expectations as set out in the relevant WIL Module Manual. If a letter is required to make contact with stakeholders from industry, the student must request such letters from the WIL Coordinator.
- The <u>WIL Coordinator</u> takes responsibility for the overall operationalisation of WIL on a campus or for a group of students and issues any formal letters required by the student.
- 3. IIE approved <u>lecturers</u> designated to guide, mentor, assess and monitor students' academic progress in the WIL module.
- 4. **External role players** in the workplace takes responsibility for mentoring the student, ensuring the student completes suitable work experiences and monitors the student's attendance.

A lecturer responsible for a WIL module may also be the designated WIL Coordinator.

3.1 Exit-level Outcomes: The Purpose of WIL

Each qualification has its own specific outcomes that need to be achieved.

Diploma in Information Technology in Software Development Exit Level Outcomes

On achieving the qualification, a student will be able to:

- Demonstrate applied competence in the analysis and design of software solutions to meet specific business requirements.
- Integrate programming, database and web development techniques in creating applications for a business environment.
- Demonstrate an ability to use a variety of programming tools and techniques to develop secure computer applications of a business.
- Apply generally accepted coding best practice in the development of secure solutions.
- Test and quality assure software applications.

3.2 Critical Cross-field Outcomes: The Purpose of WIL

The purpose of having a WIL module in a qualification is to bring together all the knowledge and skills gained into one consolidated project thereby demonstrating that students have achieved overall competence in the field of study. WIL is also intended to ensure that the South African Qualifications Authority (SAQA) critical cross-field outcomes have been achieved. These are the Critical Outcomes adopted by SAQA:

- Identify and solve problems in which responses display that responsible decisions using critical and creative thinking have been made;
- Work effectively with others as a member of a team, group, organisation or community;
- Organise and manage oneself and one's activities responsibly and effectively;
- Collect, analyse, organise and critically evaluate information;
- Communicate effectively using visual, mathematical and/or language skills in the modes of oral and/or written presentation;
- Use science and technology effectively and critically, showing responsibility towards the environment and health of others;
- Demonstrate an understanding of the world as a set of related systems by recognising that problem-solving contexts do not exist in isolation;
- In order to contribute to the full personal development of each learner and the social and economic development of the society at large, it must be the underlying intention of any programme of learning to make an individual aware of the importance of:
 - Reflecting on and exploring a variety of strategies to learn more effectively;
 - Participating as responsible citizens in the life of local, national and global communities;
 - Being culturally and aesthetically sensitive across a range of social contexts;
 - Exploring education and career opportunities; and
 - Developing entrepreneurial opportunities.

3.3 Central Assessment in WIL: WIL Portfolio of Evidence

A Portfolio of Evidence (PoE) is a collection of materials that illustrates a person's skills and capabilities. A PoE also typically includes reflecting on the learning process.

The PoE is the place (usually a file) where students collect together documents, which they can use for one or both of the following purposes:

- To demonstrate their competence during a WIL process by putting together evidence of what they did, for example, documentation, background research, reflections, lessons learnt, etc. This would include all types of WIL, e.g. Project, Simulation, Work Placement;
- To keep in one place some of the documents they may wish to show a potential employer as evidence of their learning.

A PoE typically consists of the elements set out below. However, remember that specific requirements of modules might differ and you can select the elements relevant to your module. You will find a PoE template in Annexure A.

It should be clear that the PoE is a space for you to show off all you have learned and can do – only some of what is in it is compulsory and related directly to your particular WIL. These compulsory elements are marked with an asterisk * - all the others are to help you keep in one place things that could help you find a job. The way in which you organise your PoE is one of the skills you may be assessed on.

- 1 A title sheet that contains the following information: *
- Your name and surname;
- Your module;
- Your campus;
- Your NGO or NPO you worked with;
- Your lecturer/mentor.
- 2 Your identity documents.
- 3 Your Curriculum Vitae

This is a document you will need when you are looking for a job and has been discussed in the Professional Conduct in the Workplace (PCW). Although it is not a requirement in all WIL modules, your lecturer can provide you with constructive feedback if you include it in your PoE.

4 Your WIL module summary sheet*

Here you should insert a summary of the WIL activity you have undertaken – you could use the one from your student manual or you can adapt that to provide more information if you would like to do so.

- Proof that you have completed the "Professional Conduct in the Workplace (PCW) Annexure G"
- 6 Confirmation letter*

If your WIL requires a work placement, the original placement confirmation letter must be included – see Annexure F.

- 7 Your completed project/assignment*
- 8 Your WIL Self-Evaluation Report* (Annexure A)

9 Your Peer Evaluation Forms (Template A)/Supervisor Evaluation Forms* (Template A). Each member of a group must have their own.

10 Group based activities*

Here you should insert any documents related to group-based activities, e.g. minutes of group meetings.

11 Other Evidence/Assessment

Here you can insert any other evidence of skills or achievements or additional assessment documents.

Examples of additional evidence could be:

- Proof of any special workshops or tutorials that you attended;
- Academic, social or sporting achievements;
- Proof of your role in campus activities and structures;
- Testimonials;
- Evidence of part-time work;
- Evidence of service or community engagement;
- Awards and certificates.

Examples of additional assessment:

- Any additional assessment done by your lecturer.
- 12 Declaration of authenticity* (Annexure E)

3.4 Self-Learning Evaluations, Peer Evaluations and Attendance

Because reflection is such an important part of the WIL modules, students will be assessed on their reflections and insights gained while engaging in work-like activities. Students will be assessed both on their ability to reflect on themselves (called a "self-learning evaluation") and will evaluate other students or their peers (called a "peer evaluation"). All of the self-learning evaluations and peer evaluations will be standardised across all the WIL modules and will be weighted differently across a three-year qualification. The students are to complete the peer and self-evaluation forms in <u>Annexure A</u> and submit these as part of their PoE.

In addition, participation in WIL modules will be encouraged by awarding 5% for attendance. Students should attend at least 80% of scheduled sessions <u>and</u> sessions organised by groups working together. The team leaders will track attendance of these sessions. As per The IIE006 policy, these sessions can take place using the collaboration tools on The IIE Learn platforms and/or access to video, teleconference or Skype or equivalent.

First- and second-year students normally have simulations/scenarios/case studies for their WIL module and third year students interact with industry in either a Work Placement or a Project.

Table 1 (Individual WILs) and Table 2 (Team WILs) outline how the marks will be allocated for the different parts of the assessment.

Table 1: Breakdown of Mark Weighting for Individual WIL Modules

| Year | Self only (Individual WILs) | Attendance | Total for reflection and attendance | Presentation | PoE |
|-------|-----------------------------------|------------|-------------------------------------|--------------|-----|
| Third | 15 | 5 | 20 | 20 | 60 |

Table 2: Breakdown of Mark Weighting for Team WIL Modules

| Year | Self and | | Attendance | Total for reflection and attendance | Presentation | PoE |
|-------|----------|---|------------|-------------------------------------|--------------|-----|
| Third | 10 | 5 | 5 | 20 | 20 | 60 |

3.5 Assessment Points

WIL will be conducted usually in one semester so as to create a more focused experience for students and thus increase the intensity and impact of the learning. However, it is important that students receive this guide in the <u>previous semester</u> when students are required to search for an appropriate organisation where they can carry out their WIL. Simulations for first and second year WILs will also be distributed to students in the previous semester.

The following additional principles apply:

- WIL will run over a 12-week period not starting before May. This means that contact sessions will be organised in multiples of 12;
- Work Placements will be in multiples of 40 hours normally between 80 and 120 hours (two or three weeks);
- The final submission of the portfolio (including self-evaluations) will be after the
 12 weeks normally in week 13;
- Where relevant for work placement, the final PoE for a WIL module will only be accepted for marking once <u>all</u> the required hours of work placement have been completed;
- Please refer to the WIL Policy (IIE006) and Assessment Strategy and Policy (IIE 009) for further information on the assessment of WIL modules.

4. Summary Sheet

| ITEM | DESCRIPTION | | | | |
|-----------------------|--|--|--|--|--|
| Faculty | Faculty of Information and Communications Technology | | | | |
| Qualification | DISD: Diploma in Information Technology in Software | | | | |
| Qualification | Development | | | | |
| Module | XISD6319 | | | | |
| Module Purpose | This module requires students to integrate their acquired | | | | |
| _ | knowledge and skills to develop software applications that | | | | |
| | meet specific given business requirements for an NPO/NGO. | | | | |
| | Successful completion of this module requires students to: | | | | |
| | | | | | |
| | MO1 Identify software requirements for a new IT software | | | | |
| | system to meet given business requirements; | | | | |
| | MO2 Design the implementation plan to meet the pre- | | | | |
| BA - July | determined software requirements; | | | | |
| Module | MO3 Develop the deliverables identified in the | | | | |
| Outcomes | implementation plan; | | | | |
| | MO4 Create comprehensive documentation for each | | | | |
| | required deliverable for the development and | | | | |
| | implementation of the new IT software system; | | | | |
| | MO5 Work together as a group to produce all deliverables | | | | |
| | of the new IT software system. | | | | |
| Credits | 20 | | | | |
| Notional Hours | 48 | | | | |
| Corequisites | Co-requisite: IPMA6212, PROG6212, DATA6212, XISD6219 | | | | |
| Type of WIL | Simulation and Work Placement | | | | |
| Group/Individual Work | Group (two — three members) and individual | | | | |
| WOIK | See Table 1 and 2. | | | | |
| Assessment | | | | | |
| Structure | The pass mark for this work integrated learning module | | | | |
| ou dotai o | is 50%. | | | | |
| | The students are required to develop a documented software | | | | |
| | solution that can facilitate or support a process or project in an | | | | |
| | organisation. The solution presented must consist of: | | | | |
| | organication the column procession index content on | | | | |
| Summary of | Agreed upon project charter with an identified | | | | |
| Activities | organisation to make recommendations for | | | | |
| | improvement in one aspect of their business, related to | | | | |
| | their IT solution; | | | | |
| | | | | | |
| | Organisation overview document; | | | | |

| ITEM | DESCRIPTION |
|---------------------------|---|
| | Overview of the area/division to provide a solution for IT solution change recommendations; Rollout project plan; Organisation feedback from recommendations; Presentation on the application design and structure of the new system/project consisting of a PowerPoint slide show; All supporting Software Development Life Cycle (SDLC) documents. Submission of documents on Compact Disk (CD) containing the developed documents including, Installation for developed software and Help system to support developed software; Presentation. |
| Tools and Resources | Project management software; Appropriate software packages to develop the software (Software associated with the applications covered during the diploma to date: JAVA/C#/SQL/Android, etc.). |
| Additional Information | Focus on the actual activities. Please refer to the pacer and use the sessions as a weekly guide, e.g. Session 1 is Week 1. Final deadlines in Semester 2 are as follows: Week 10: Final completed student portfolios must be submitted by the end of Week 10. This means that the final activity must be completed by Week 9. This will allow students a week for the final compilation of the portfolio. Week 11: Feedback on portfolios to be given to students and final changes made. Week 12: Lecturer to submit the final assessed portfolios and mark sheets. |

5. Learning Framework

You are required to develop a documented software solution that can facilitate or support a process or project in an organisation. The solution presented must consist of the following:

- Agreed upon <u>project charter</u> with an identified organisation/NGO to make recommendations for improvement in one aspect of their business, related to their IT solution; this organisation could be a large corporation (established medium to large business) or a smaller organisation (your local hairdresser, grocery store, school, church, etc.). The project charter is a document signed by the stakeholders in the project (i.e. your team leader representing your team and the representative liaison for the organisation);
- <u>Organisation overview document</u>: This document will demonstrate the overall structure of the organisation. An organogram can be used;
- Overview of the area/division: More detail must be provided on the specific area/division your project will be done for. Give details of their function in the organisation, the number of people that work in that division, the problems they are experiencing and what they would like solved by your project;
- <u>IT solution change recommendations</u>: Your documented suggestions/recommendations to the organisation;
- Rollout project plan: The project planning documentation (e.g. PERT charts, GANTT charts, etc.);
- Organisation feedback from recommendations: The documented feedback received from the organisation on your suggestions/recommendations;
- <u>Presentation</u> on the application design and structure of the new system/project consisting of a PowerPoint slide show. This will be presented to your lecturer and classmates at the end of the project. The slides should include the following:
 - Your team name;
 - Your team members;
 - The organisation/department you were developing a solution for;
 - The problem statement:
 - Your recommended solution show your documentation which illustrates the system diagrams/database tables/any other relevant documentation;
 - Explain the functioning of your project;
 - Screenshots of important items relating to your project.
- All supporting SDLC documents: Submission of documents on DVD/CD which will include all the necessary files to install and execute your project and a Help system to support developed software;
- <u>Project presentation</u>: Demonstrate the running of your project to an audience consisting of at least your peers and your lecturer. Invited guests may also attend the presentation.

6. Pacer

| WEEK | MILESTONE | TASK |
|------|---|---|
| 1 | Team Member Allocation | Documentation handed out and team selection takes place; Appointment of the following members: |
| | | Project Manager/Team Leader [PM]; Software Developer Lead [SD]; Business Analyst/Software Designer/secretary [BA]. |
| | | Allocation of task to a lead team member is indicated below with [] e.g. [PM], [ALL] – meaning all members of the team; Group size (two—three members). Not more than three members per group. |
| 2 | Identification of organisation and project Professional Conduct in the Workplace | Identification of the organisation; problem domain; business processes; system requirements; functions of the system; stakeholders and their functions; inputs, outputs and processing components [AII]. Reading of the Professional Conduct in the Workplace (Annexure G) [AII]. |
| 3 | Project Plan Criteria | Project plan criteria are discussed and reviewed in the team meeting [AII]; Determine the scope of the new system and the key role players [PM]; Identify milestones and deliverables [PM]; Develop a work breakdown structure; risk analysis; technical and economic feasibility [PM and BA]; Design a project schedule/plan |
| | | using MS Project as a tool [PM]; |

| WEEK | MILESTONE | TASK |
|-------|--------------------------------|---|
| | | Teams submit a project plan document [PM]. |
| 4 | Requirements Analysis Criteria | Requirements analysis criteria are reviewed in the team meeting [BA]; Determine the functional requirements and develop usecase diagrams [BA]; Develop a logical system model indicating inputs, outputs, processes and relationships [SD]; Submit the business solution requirement and analysis document [BA]. |
| 5 | System Design | Designs and solutions criteria are discussed in the team meeting [AII]; Design the application architecture of the system using the different possible models such as three-tier design; two-tier design; thin or thick clients; centralised design with dumb terminals; etc. [SD]; Design the GUI; database with full referential integrity; reports; the Android app and the system's website [SD, BA]. |
| 6 — 8 | Implementation | Implementation criteria are reviewed in the team meeting [AII]; Begin working on implementation with guidance from lecturer [SD]; Develop code for the Android app [SD]; Develop the code for the system's GUI [SD]; Develop code for input controls [SD, BA]; Develop code for program modules [PM, SD]; Design and Develop database tables using a DBMS [SD, BA]; Populate the database using real or simulated data (at least 10 records per table) [BA]; |

| WEEK | MILESTONE | TASK |
|---------|---|--|
| WELK | MILLOTONE | Verify and test the system; Develop user support, i.e. help system and user documentation [PM, BA]; Working prototype of the business solution is completed. A prototype is not a complete functioning system. It contains all the screens and some functionality [AII]. |
| 9 | Presentation and Demonstration of prototype | Presentation criteria are introduced in the team meeting [BA]; Implement the prototype of your system [SD]; Present and demonstrate the prototype system [PM]. |
| 10 — 12 | Presentation and Demonstration of final project | Implement the recommendations received on the prototype of your system [AII]; Correct any bugs, GUIs and finalise the system [AII]; Present and demonstrate a working system [PM]. |
| 13 | Presentation | Lecturer to mark WIL |

7. Assessment in WIL Modules: Oral Presentations

The WIL module will be assessed primarily in two different ways. These are, through an oral presentation and by submitting a Portfolio of Evidence (PoE). Each of these will be discussed below.

Many of the WIL modules require students to deliver an oral presentation describing their project or activity to their peers and/or lecturer(s). This will typically happen at the end of the project, i.e. towards the end of the WIL module.

Clearly and effectively presenting ideas to others is often an important skill needed for success in the workplace. For some students, this will be the first time this skill is practiced. Students should not underestimate the time it takes to prepare for a presentation and how important it is to engage their audience during the presentation. Students may, therefore, find it useful to consider the following questions before preparing their presentations.

7.1 Why Oral Presentations?

Assessment of WIL requires evidence of the achievement of a number of skills, some of which cannot be demonstrated in formal documents such as the portfolio of evidence (PoE). The oral presentations provide students with the opportunity to demonstrate the running of the project to an audience consisting of at least peers (fellow students) and the lecturer. Invited guests may also attend the presentation.

Examples of presentation skills include oral communication and non-verbal skills such as audience engagement, facial expressions and body language. Many of these skills could affect the success or failure of the students once in the workplace. In addition, lecturers sometimes need an opportunity to assess group dynamics and to probe the depth of understanding of related concepts during open discussions with students. Presentations provide the perfect platform for this.

7.2 What may be Assessed in Oral Presentations?

There are two main components of oral presentations, namely, a verbal component and a visual component. The verbal component focuses on the oral, or spoken portion of the presentation during which aspects such as tone, delivery, language and audience engagement are assessed.

The visual component includes all other communication aids that are used during the presentation, e.g. slides, video clips, posters, handouts, models, simulations, diagrams, websites, etc. The visual images created by the students themselves may be included here if they are relevant to the environment which is being represented. A typical example would be when a group of students is simulating the presentation of a proposal to a prospective client. In such instances, appropriate dress, posture and body language are important.

Visual aids used in presentations should be used effectively. For example, PowerPoint slides should <u>support</u> the presentation, but not <u>become</u> the presentation. Consequently, students need to think about both what they say, how they say it, what they use to support what they say and how they are acting professionally and appropriately in a work-like environment.

7.3 How is an Oral Presentation Assessed?

In most cases, the lecturer will use a set of predetermined criteria to assess the presentation. The criteria is presented either on a marking scheme or on a rubric and should help students to focus on the skills that will be assessed. Students should, therefore, familiarise themselves with the criteria before they begin to plan their presentations.

Each student in the team is to be evaluated according to the rubric in <u>Annexure B</u>. Please ensure enough copies are available when the team is doing their presentation.

7.4 Presentation and Demonstration Criteria

Before the presentation, the lecturer will do the following:

- Monitor the progress of the teams;
- Identify any problems (functional and interpersonal) that need to be resolved;
- Discuss the criteria document for assessing the presentation (in the team meetings);
- Prepare the venue for the presentations;
- Schedule the teams for their presentations.

The format of the presentations will typically be as follows:

- Students set up their project in the allocated venue;
- The team members introduce themselves to the lecturer and moderator;
- The presentation starts with a PowerPoint slide show;
- The project is demonstrated;
- The lecturer and moderator ask questions (if peers are present, they may ask questions as well);
- The lecturer and moderator allocate marks according to the marking criteria.

The lecturer and moderator will allocate marks according to a set of criteria known to the students in the final presentation. <u>During this activity, the students complete peer evaluation forms, which assess the participation of individual team members in the development of the project. This forms the feedback to the students.</u>

8. Assessment in WIL Modules: Portfolio of Evidence (PoE)

The PoE is typically a file that collates all the work on the WIL project. The PoE should contain <u>all supporting documents</u> and the <u>project presentation</u>. Each student will submit his/her own PoE.

Students are required to do the following and include evidence thereof in the PoE/Project submission:

- To demonstrate their competence during a WIL process by putting together evidence of what they did, e.g. documentation, flow diagram, background research, user guides, etc.
- To keep in one place some of the documents they may wish to show a potential employer as evidence of their learning.

Students need to submit documents demonstrating evidence of the work covered in the project. This means that it is a good idea for students to carefully collect and keep evidence of what they are working on as the project progresses. The supporting documentation includes:

- 1 A title sheet that contains the following information:*
 - Your name and surname;
 - Your module;
 - Your campus;
 - Your NGO or NPO you worked with;
 - Your lecturer/mentor.
- 2 A copy of your identity document.
- 3 Your Curriculum Vitae

This is a document you will need when you are looking for a job and has been discussed in the Professional Conduct in the Workplace (PCW). Although it is not a requirement in all WIL modules, your lecturer can provide you with constructive feedback if you include it in your PoE.

4 Your WIL module summary sheet*

Here you should insert a summary of the WIL activity you have undertaken – you could use the one from your student manual or you can adapt that to provide more information if you would like to do so.

5 Proof that you have completed the "Professional Conduct in the Workplace (PCW)"

6 Confirmation letter*

If your WIL requires a work placement, the original placement confirmation letter must be included.

- 7 Your completed project/assignment*
- 8 Your WIL Self-Evaluation Report* (Annexure A)
- 9 Your Peer Evaluation Forms (Annexure A)/Supervisor Evaluation Forms*. Each member of a group must have their own.
- 10 Group based activities*

Here you should insert any documents related to group-based activities, e.g. minutes of group meetings.

11 Industry logbook*

If your WIL involved a work placement, you would have had to complete a logbook of your daily activities that you should insert here. This must be signed by your mentor/supervisor and should include a company stamp to indicate authenticity.

12 Other Evidence/Assessment

Here you can insert any other evidence of skills or achievements or additional assessment documents.

Examples of additional evidence could be:

- Proof of any special workshops or tutorials that you attended;
- Academic, social or sporting achievements;
- Proof of your role in campus activities and structures;
- Testimonials;
- Evidence of part-time work;
- Evidence of service or community engagement;
- Awards and certificates.

Examples of additional assessment:

- Any additional assessment done by your lecturer.
- 13 Declaration of authenticity* (Annexure E)

8.1 Attendance Record

Every student is responsible for recording his/her own attendance. Students must include this document in their PoEs to ensure that they receive a mark for attendance.

8.2 Team Member Allocation

The lecturer will explain the rules of the project in the following areas:

- Participation of the students;
- Attendance of the students;
- Responsibilities of the students;
- Importance of milestones/deliverables.

8.3 Project Plan Criteria

Team members are allocated responsibilities to tasks identified. The following table should be used to capture the tasks of each team member:

| Task number | Description of the task | Team member responsible for the task | Duration of the task in time units |
|----------------|-------------------------|--------------------------------------|------------------------------------|
| 1. | | | |
| 2. | | | |

8.4 Requirements Analysis Criteria

Refer back to the table included in the discussion of the Project Plan Criteria (see Section 5.3.). Requirements are identified for each of the tasks in the project plan. This includes requirements to complete the project as well as what is to be achieved by the team in their project.

8.5 Project Progression

Students need to communicate with the lecturer on the progression on their project, highlight constraints and problems (externally and within their team), participate in class discussions and submit evidence of project progression using reflective diaries. Reflective diaries could take the form of a one page submission by each student on his/her experience thus far in the project highlighting what has been achieved, what needs to be achieved, any team problems experienced and external problems encountered relating to their project. A mark for the reflective diary could be added into the self-reflection category.

8.6 Implementation

During the team meeting discussions, the teams must be briefed on what is expected for the next deliverable. The following is a guide for implementation, indicating minimum requirements expected for the project. This forms part of the feedback given to the teams by the lecturer.

Minimum Requirements for the Project

| Topic | Level |
|---------------|-------|
| Project | |
| Description | |
| Reports/ | |
| Documentation | |

8.7 Project Presentation

Students are required to include the visual material that was used in the oral presentation in the PoE. The project presentation part of the PoE should include the following information:

- The team name;
- The team members;
- The organisation/department where the WIL project was conducted (simulations do not need to provide any information);
- Any documentation which illustrates the scope of the project;
- A discussion on the progression through the process, findings and recommendations;
- Screenshots of important items relating to your project.

8.8 PoE Submission

<u>All</u> students need to be aware of the submission date and the lecturer to whom they should submit.

The PoE should consist of the following sections:

- Outside Cover Page;
- Inside Cover Page;
- Content;
- Documentation:
 - Introduction;
 - Work Breakdown Structure;
 - Team Members;
 - Rubrics and Attendance Record
 - Milestones and Deliverables;

Appendix/Annexures.

9. Marking Scheme

An additional mark allocation for each assessment/deliverable in the following table has been further explained below. Please have a look at these while completing each deliverable.

Assessment Part 1: Project Mark = 80% of Total Mark

| Assessment/ | Session | Format | Time | Marks | Weighting |
|----------------|---------|------------|-----------|-------|-----------|
| deliverable | | | | | |
| Project plan | See | Document | See Pacer | 100 | 10% |
| | Pacer | | | | |
| Requirements | See | Document | See pacer | 100 | 20% |
| analysis | Pacer | | | | |
| Solution | See | Document | See Pacer | 100 | 20% |
| development | Pacer | | | | |
| Implementation | See | Program | See Pacer | 100 | 40% |
| | Pacer | modules; | | | |
| | | Database; | | | |
| | | Mobile app | | | |
| Presentation | See | PowerPoint | 50 | 100 | 10% |
| | Pacer | slides; | minutes | | |
| | | Working | | | |
| | | system | | | |
| Total Mark | | | | | 100% |

Assessment Part 2: Peer and self-evaluation = 15% of Total Mark

- Use the self-evaluation to determine your strengths and weaknesses (10%);
- Use the peer evaluation form to evaluate team members (5%);
- Each student completes a form assessing the other team members.

Assessment Part 3: Attendance = 5% of Total Mark

 Attendance at a minimum of 80% of scheduled sessions and sessions organised by groups working together.

All criteria will be assessed using the following rating:

- 0. Not attempted;
- 1. Attempted, but not correct;
- 2. Attempted, but can do better;
- 3. Acceptable, all basics are covered;
- 4. Acceptable, basics as well as some in-depth areas covered; and
- 5. Excellent, extra work has been completed.

Once the criteria has been awarded a mark, the mark will be multiplied by a weight to get the final mark for the criterion.

9.1 Project Plan Marking Scheme

| 1. | Acad | demic Mark for Project Plan | /100 |
|------|--------|--------------------------------------|--------------------|
| | 1.1 | Introduction | $/5 \times 2 = 10$ |
| | 1.2 | Milestones and Deliverables | $/5 \times 1 = 5$ |
| | 1.3 | Work Breakdown Structure | $/5 \times 4 = 20$ |
| | 1.4 | Project Schedules | |
| | | 1.4.1 Gantt chart and Interpretation | $/5 \times 1 = 5$ |
| | | 1.4.2 PERT chart and interpretation | $/5 \times 1 = 5$ |
| | 1.5 | Risk Management | $/5 \times 4 = 20$ |
| | 1.6 | Technical Feasibility Issues | $/5 \times 3 = 15$ |
| | 1.7 | Economic Feasibility Issues | $/5 \times 3 = 15$ |
| | 1.8 | Team Members | $/5 \times 1 = 5$ |
| 2. | Bon | us Marks for Project Plan | /15 |
| | 2.1 | Layout of document | /5 × 1 = 5 |
| | 2.2 | Appendix | $/5 \times 1 = 5$ |
| | 2.3 | Use of colour | $/5 \times 1 = 5$ |
| Tota | l Marl | k Allocation for Project Plan | /100 |
| 1. | Acad | demic marks for document | /100 |
| 2. | Bonu | us marks for document | /15 |
| Fina | l Perc | centage | % (Max 100%) |

9.2 Requirement Analysis Marking Scheme

| 1. | Problem Domain | | /5 × 2 = /10 |
|----|----------------|-----------------------------------|---------------------|
| 2. | Solu | ution Domain | /20 |
| | 2.1 | Active Actors | $/5 \times 1 = 5$ |
| | 2.2 | Functions | $/5 \times 2 = 10$ |
| | 2.3 | Passive Actors | $/5 \times 1 = 5$ |
| 3. | Log | ical System Model | /20 |
| | 3.1 | Input Specifications | $/5 \times 1 = 5$ |
| | 3.2 | Output Specifications | $/5 \times 1 = 5$ |
| | 3.3 | System Processes | $/5 \times 1 = 5$ |
| | 3.4 | Entity Relationship Tables | $/5 \times 1 = 5$ |
| 4. | Clas | ss Diagrams | /50 |
| | Marl | ks per class: | |
| | Clas | ss #n: | |
| | | Name and Properties for the Class | $/5 \times 1 = 5$ |

Relationships with Other Classes

 $5 \times 1 = 5$

(Allocate marks for each class designed and implemented in the solution — to a maximum of five classes.)

| 5. | Appendix (Bonus) | $/5 \times 1 = 5$ |
|------|--|-------------------|
| Tota | I Mark Allocation for Requirement Analysis | /100 |
| 1–4 | Total Academic contents | /100 + |
| 5 | Extra Bonus | $/5 \times 1 = 5$ |
| | | |

Final Percentage % (Max 100%)

9.3 System Design Marking Scheme

| 1. 2. | | oduction cal Architectural Design High level design | /5 × 1 = 5 /15 /5 × 1 = 5 |
|----------|-------|---|---------------------------------|
| | 2.2 | Low level design | $/5 \times 2 = 10$ |
| 3. | Use | Interaction Design | /30 |
| | 3.1 | Input Interactions | $/5 \times 4 = 20$ |
| | 3.2 | Request Interactions | $/5 \times 2 = 10$ |
| 4. | Data | base Design | /30 |
| | 4.1 | Database Tables | $/5 \times 4 = 20$ |
| | | (Allocate marks to a maximum of four tables) | |
| | 4.2 | ERD Design | $/5 \times 2 = 10$ |
| 5. | Rep | ort Design | $/5 \times 4 = 20$ |
| 6. | Bon | us for Appendix | $/5 \times 1 = 5$ |
| Tota | l Mar | k Allocation for System Design | /100 |
| 1-5 | Acad | demic marks for document | /100 + |
| 6. | Bonu | us marks for document | /5 |

Final Percentage % (Max 100%)

9.4 Project Implementation Marking Scheme

Note: Please carry the marks allocated over to the following Implementation Marking Scheme and scale accordingly.

| 1. | 1. Implementation criteria | | /100 |
|----|----------------------------|------------------------------------|--------------------|
| | 1.1 | Code for GUI | $/5 \times 4 = 20$ |
| | 1.2 | Code for the input controls | $/5 \times 5 = 25$ |
| | 1.3 | Database tables | $/5 \times 2 = 10$ |
| | 1.4 | Database linked to program modules | $/5 \times 2 = 10$ |
| | 1.5 | Testing of the system | $/5 \times 2 = 10$ |
| | 1.6 | User support and documentation | $/5 \times 4 = 20$ |

1.7 Code for the Android app $/5 \times 1 = 5$ Total Mark Allocation for Project Implementation /1001. Academic marks for document /100 + 2Bonus marks for document /5

Final Percentage % (Max 100%)

9.5 Project Presentation Criteria

| 1. | Prob | olem Statement | $/5 \times 1 = 5$ |
|----|--------|---|-------------------|
| | 1.1 | How was the problem domain analysed and presented? analysis.) | (Results of the |
| 2. | Busi | ness solution | /15 |
| | 2.1 | Description of the system | $/5 \times 1 = 5$ |
| | | 2.1.1 Architecture | |
| | 2.2 | How was it solved? | $/5 \times 1 = 5$ |
| | | 2.2.1 How was the solution domain presented? | |
| | | 2.2.2 Milestones and deliverables? | |
| | | 2.2.3 WBS? | |
| | | 2.2.4 Budgets? | |
| | 2.3 | User requirements | $/5 \times 1 = 5$ |
| | | Identification of business functionalities? | |
| 3. | Utilit | y of the system | /10 |
| | 3.1 | Value added? (Satisfy the needs.) | $/5 \times 1 = 5$ |
| | 3.2 | Reports? | $/5 \times 1 = 5$ |
| 4. | Data | base | /15 |
| | 4.1 | Scope (number of tables). | $/5 \times 1 = 5$ |
| | 4.2 | Table correctness (fields/datatypes) | $/5 \times 1 = 5$ |
| | 4.3 | Relationships (ERD). | $/5 \times 1 = 5$ |
| 5. | GUI | | /15 |
| | 5.1 | | $/5 \times 1 = 5$ |
| | 5.2 | Friendliness; | $/5 \times 1 = 5$ |
| | 5.3 | Menus/Navigation. | $/5 \times 1 = 5$ |
| 6. | Fron | t-end to back-end links | /10 |
| | 6.1 | Enter new data (new, update, delete, requests). | $/5 \times 1 = 5$ |
| | 6.2 | Display results (on screen). | $/5 \times 1 = 5$ |
| 7. | Mob | ile App | /20 |
| | 7.1 | Layout (aesthetics)/Forms; | /5 × 1 |
| | 7.2 | Friendliness; | /5 × 1 |
| | 7.3 | Menus/Navigation. | /5 × 1 |
| | 7.4 | Functionality | /5 × 1 |

8. Presentation skills mark

 $/5 \times 2 = 10$

- 8.1 Introduction of team;
- 8.2 Eye-contact;
- 8.3 Pace of presentation;
- 8.4 Language (jargon);
- 8.5 Use of notes;
- 8.6 Confidence;
- 8.7 Systematic;
- 8.8 Dress;
- 8.9 Layout of slides.

Total Mark Allocation for Project Presentation

/100

| Final Percentage | % |
|------------------|---|
| | |
| Comments: | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

9.6 Project Planning Document

9.6.1 Specifications for Project Planning Document

Date: <date to be submitted>
Lecturer: <responsible lecturer>

9.6.2 Document Preparation

The document must be printed using a laser printer or a high quality colour printer with Arial 11 font size. The document must be ring-bound, for easy paging. The cover page of the document must contain a logo of the team, serving as team identification.

9.6.3 Structure of the Document

The layout of the document with paragraph numbers must be exactly according to the specification in the following paragraphs. Marks will be deducted for any deviations.

9.6.4 Outside Cover Page

- Heading of document: Project Plan Document;
- Date: Date of the document;
- Logo: Logo of the team.

9.6.5 Inside Cover Page

- Number of the team;
- Name of the team;
- Name and student number of team leader;
- Names and student numbers of team members;
- Name and logo of the system.

9.6.6 Index of Contents

Give separate index lists for:

Paragraphs listed per page:

Paragraph number Paragraph name Page number

Figures/Tables listed per page:

Figure/Table number Figure/Table annotation Page number

9.6.7 Documentation

Introduction

This paragraph is directed towards the management of the company for which the system is developed. Therefore, a summary for justifying the system must be given. Give attention to the following aspects:

- The needs of the customer that the project should satisfy;
- The goals of the project;
- Cost constraints (budgets);
- Risks (if the project is not successful, late, over budget, etc.);
- Benefits for the customer if the project is successful.

Milestones and Deliverables

Every project has certain milestones, representing important achievements in the development process. For example, when the analysis of the system is completed, a milestone has been reached. Associated with each milestone is a deliverable resulting from the activities that led to the milestone. In the case of the analysis milestone, the deliverable is the <u>analysis document</u>. Make a list in bullet form of the milestones and the associated deliverables.

Work Breakdown Structure

Draw up a table containing:

- The names of the tasks:
- Description of each task;
- Duration of each task in sessions;
- Predecessor(s) of each task;
- Team member(s) responsible for each task;
- Resources needed for each task.

Project Schedule

Gantt Chart:

- Draw a Gantt chart of your project using MS Project;
- o Interpret the Gantt chart by describing the meanings of the different components of the chart for your project.

PERT Charts:

PERT uses approximate time estimates: optimistic estimates, most likely estimates and pessimistic estimates.

The PERT weighted average = (optimistic + $4 \times most$ likely + pessimistic)/6

- Draw a task network diagram using MS Project;
- Interpret the meaning of the diagram for your project;
- o Identify the critical path for your project and the importance of this path for planning your activities.

Risk Management

- Identify the risks to which your project may be exposed (e.g. team member leaves, no cooperation from sponsor, lack of technical expertise, team member does not contribute, running behind schedule, etc.);
- Determine the probability of each risk as Very Low, Low, Medium, High, Very High and the impact as Very Low, Low, Medium, High, Very High;
- Draw up a risk table for each risk indicating the above categories;
- Indicate the proactive steps to be taken to handle each risk.

Technical Feasibility Issues

To develop a project, certain resources are needed, these can be grouped into hardware resources and software resources:

- Make a list of the hardware resources you need to develop your project;
- Indicate if the hardware resources are available; if not, describe how you are going to solve the problem;
- Make a list of the software resources you need;
- Indicate if the software resources are available; if not, describe how you are going to solve the problem;
- Note: Do not refer to resources you need to implement the system.

Economic Feasibility Issues

Project managers must make cost estimates if they want to complete projects within budget constraints. There are a number of ways in which the budget calculations can be done using Rough Order of Magnitude (ROM) calculation; budgetary estimate and definitive estimate.

- Draw up a table indicating each activity/task (use the tasks identified in the WBS structure);
- For each activity/task, state the team member(s) responsible for that task;
- For each team member, indicate the time allocated for that task in terms of hours;
- For each team member, indicate the tariff for that particular task in rand/hour:
- Calculate the total budget for the effort (remember effort is person-time) for the
 project by adding all the effort values of all the team members. (Do not calculate
 any other budget costs, such as hardware or software costs);
- Note: For converting sessions to hours use the relationship:
 One session = 40 hours.

Format of the table:

| Task Identification | Team member(s) responsible | Time allocated per task per team member | Tariff per team member in Rand per hour | Cost per Task (time * tariff) |
|------------------------|----------------------------------|---|--|-------------------------------------|
| Analysis | Tshepo | 30 hours | 150 | 4500 |
| :: | :: | :: | | :: |
| :: | :: | :: | :: | :: |
| Total budget f | xxxxxxx | | | |

Team Members

- Identify the team leader (use a photograph);
- Identify the team members (use photographs);
- Give a description of each team member's main responsibility in the project;
- Give a short CV of each team member.

Appendix

Enter any additional information on the project plan in the appendix. <u>This paragraph is optional.</u>

9.7 Requirements Analysis Document

9.7.1 Specifications for Requirements Analysis Document

Date: <date to be submitted>
Lecturer: <responsible lecturer>

9.7.2 Refer above for specifications on the following headings

- Document Preparation;
- Structure of the Document;
- Outside Cover Page;
- Inside Cover Page;
- Index of Contents.

9.7.3 Documentation

Problem Domain (System Analysis)

A study is made of the problem identified in the organisation selected. Use the Introduction from the Planning Document, but give a more complete specification with more detail.

Solution Domain (Functional requirements specs and UML Use Cases)

A logical description of the functional requirements of the <u>proposed system</u> is given. You will use your UML background to draw a <u>use case diagram</u> of the system containing the following:

- The business system, divided into sub-systems if necessary;
- The use cases actions:
- The Actors taking part:
 - Human Actors;
 - Mechanical System Actors (such as linking to other systems).

• The name of each entity (that is system/sub-system use cases and actors) in the diagram.

Format of the functional requirements table:

Example:

| Participant | Function of the system | Participant |
|----------------|------------------------------|-----------------|
| (Active actor) | | (Passive actor) |
| Customer | Book a DVD at the Video Shop | Shop assistant |
| Shop assistant | Sells goods | Customer |
| Manager | Prepares a sales report | |

Logical System Model

The logical system is modelled by completing the following table that must be accurate, as it is the heart of the system.

Format of Logical System Model Table:

Example:

| GUI | | System Process (Method) | Entity relationship | |
|----------|--------------|-------------------------|---------------------|--|
| Input | Output | | (Table) | |
| Enter | | Register a new customer | Customer table | |
| customer | | | | |
| details | | | | |
| No input | No output | Calculate sales figures | Sales table | |
| No input | Sales report | Print sales report | Sales table | |
| | on printer | | | |

Class Diagrams

Identify the classes using the entity relationship column in the above System Model Table. Each Entity Relationship Table represents an entity that could be a potential UML-class.

Format of Class Diagram Table:

| Name of entity (UML Class) | Properties of entity (UML Class) | Related to: |
|----------------------------|--|-------------|
| Customer | Name (string — 30 characters) | Account |
| | Address (string — 60 | |
| | characters) | |

When you are attempting to model relationships between classes using UML, you must consider the following:

- Draw diagrams indicating the relationships between the classes. Use Visual Modeller, Rational Rose or any other drawing tool (even MS Word) to prepare these diagrams;
- The standard UML class template contains a name, attributes and operations of the class. However, use a short-cut notation, only referring to the name of the class:
- The following relationships between the classes have to be modelled:
 - Associations;
 - Generalisations:
 - Aggregations;
 - Any other dependencies between classes/sub-classes/objects.
- The diagrams may become rather busy and cluttered. Therefore, segment the diagrams into smaller units called Packages. A practical approach is to do a global model of the total system and then to give relationships for every use-case, linking the use-cases when necessary.

<u>Appendix</u>

Use this paragraph to add any information not specified in the previous paragraphs, but worthwhile including in the document. Number each appendix: Appendix A, Appendix B, etc. Also, add an index of Appendices.

9.8 Design Document

9.8.1 Specification for Design Document

Date: <date of document>

Author: <lecturer>

9.8.2 Refer above for specifications on the following headings

- Document Preparation;
- Structure of the Document;
- Outside Cover Page;
- Inside Cover Page.

9.8.3 Table of Contents

Paragraph number Paragraph name Page number

9.8.4 Index of Figures

Figure number Figure description Page number

9.8.5 Documentation

Introduction

Give a short description of your system (use information from previous documents).

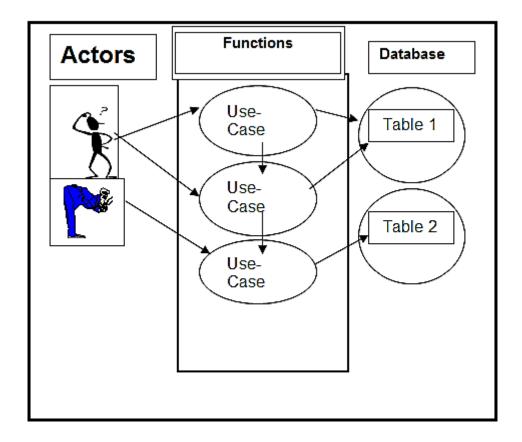
9.9 Logical Architectural Design

9.9.1 High Level Architectural Design

- Block diagrams should be used to describe the logical design of your prototype system;
- Indicate whether it is a three-level, two-level or flat system; the clients and the servers, the position of the database, etc.;
- Indicate how the functional building blocks are divided between the components of the system (functions allocated to the clients, to the server, etc.);
- Refer back to the system model table for details on the system Input/Output specification;
- Refer back to the Functional Requirements table for the system.

9.9.2 Low Level Architectural Design

- In the Low Level Design, the relationships between Actors, Functions and the Database Tables are indicated;
- A block diagram of the Low Level Design is indicated in the following diagram:



The Low Level Design diagram consists of three parts:

- Actors: The actors refer back to the actors identified in the Use-Case diagrams;
- <u>Functions</u>: The functionality of the system is modelled using <u>use-cases</u>. State the function of each use-case briefly. Arrows indicate any relationships between usecases;
- <u>Database</u>: The database or table referred to in a use-case must be indicated using a circle. The meaning of a database has to be indicated using a note comment or a label.

9.10 Interactions with the User

The interactions of the user with the prototype are modelled. Use the input interactions identified in the Requirement Analysis Document as building blocks.

The interactions can be divided into two main categories, namely input interactions and requests interactions:

9.10.1 The Input Interactions

These interactions represent data controls used to read data into the system. This is the first reference to the GUI containing the complete interaction specification. In this document, the input interactions have to be specified in detail.

There are two options you can follow:

Option 1: Give a summary of the input options.

Make a structured annotated list of all your inputs. The list must indicate the hierarchical relationship between the input menus.

For example:

 Main Menu:
 Main Menu Item#1
 Main Menu Item#2

 1st level
 1.1 Sub Menu 1
 2.1 Sub Menu 2

 1.2 Sub Menu 2
 2.2 Sub Menu 2

 2.3 Sub Menu 2
 2.2 Sub Menu 2

 3 Sub Menu 2
 3 Sub Menu 2

 3 Sub Menu 2
 3 Sub Menu 2

 4 Sub Menu 2
 3 Sub Menu 2

 5 Sub Menu 2
 3 Sub Menu 2

2nd level 1.n.1 Sub sub Menu 1

1.n.2 Sub sub menu 2

Etc.

Example: You want to register a student at your college:

| Main Menu: | Student Personal info | Student Study | Financial |
|-----------------------|-----------------------|---------------|------------------|
| 1st level | Biographical | Year of study | Bank act |
| 2 nd level | Name | Degree | Saving act |
| 2 nd level | Age | Subjects | Bursary |
| 1 st level | Address | subj#1 | |
| 2 nd level | Street | subj#2 | |
| 2 nd level | Post Box | subj#3 | |
| 1 st level | Contact | | |
| 2 nd level | Telephone | | |
| 2 nd level | Cell Phone | | |

Option 2: Give a complete GUI definition.

Use C# or Java (or a similar visual tool) and design a complete GUI of all the input interactions. Include this design in your document.

<u>Note</u>: The input menus and forms play an important role in the identification of the attributes and services of the classes.

9.10.2 The Requests Interactions

These interactions represent all service requests put to the system and include requests for functional processing (scheduling, calculating statistics, etc.) and outputs in the form of screen displays (graphical representations) and printed reports. Request interactions refer to menus and output parameter forms used to specify the services (value added) provided by the system.

Again, you have two options:

Option 1: Give a summary of the interactions.

Make a complete hierarchical list of all the interactions, as explained in the Input section.

Option 2: Give a complete GUI definition.

Specify the interactions by doing the GUI design (menus and forms) using a visual tool (VB or a similar facility) and include a screen dump of the layout in your design document.

<u>Note</u>: In this document, the non-functional aspects such as creating a file, defining passwords and error messages are not covered. If you did not provide for all the interactions in your analysis document, you must now make sure that those interactions that were not considered are included in the design document. In your document, you must provide paragraphs where the interactions are described.

9.11 Database Design

Refer to the Class Diagram table above to indicate entities and their relationships:

- Use these entities as building blocks in the design of your ERD data model;
- Complete the following steps in designing your model:
 - Identify all the entities in your database. This is possible by consulting the above table and the input and output menus of your GUI;
 - Identify all the relationships between the entities and normalise it into 3NF;
 - Use a CASE tool (e.g. Access) to draw the ERD logical database tables.
- As part of the relationship design, the keys related to each database table have to be identified and specified. There are primary keys, secondary keys, foreign keys, composite keys, etc.;
- The following database table layout can be used:

Table Name: <insert table name>

| Primary key | Secondary keys | | Data fields | | | | |
|----------------|---------------------|---------------------|-------------|-------------|-------------|--|-------------|
| | Secondary key #1 | Secondary key #2 | Field #1 | Field #2 | Field #3 | | Field #n |
| | | | | | | | |

Note that the properties of an entity in the Class Diagram become the data fields of the database table.

- Draw a set of database tables (see below);
- Draw the relationship diagrams between the tables (see below).

9.11.1 Database Tables

Draw diagrams of the individual table's design, using the following numbering scheme:

Database Table#1: < Insert Table #1 here>

| Primary key | Secondary I | Data fields | | | | | |
|-------------|---------------------|---------------------|-------------|-------------|-------------|--|-------------|
| | Secondary key #1 | Secondary key #2 | Field #1 | Field #2 | Field #3 | | Field #n |
| | | | | | | | |

Database Table#2: < Insert Table#2 here>

| Primary | Secondary | Data fields | | | | | |
|---------|---------------------|---------------------|-------------|-------------|-------------|--|-------------|
| key | | | | | | | |
| | Secondary key #1 | Secondary key #2 | Field #1 | Field #2 | Field #3 | | Field #n |
| | | | | | | | |

And so on.

In each table, at least three fictitious, although realistic, values have to be entered in order to serve as examples.

9.11.2 Entity Relationship Database Design

Draw diagrams of the relationships between the tables using ERD diagrams. Number each table according to the following scheme:

ERD diagram #1: <Insert ERD diagram here> ERD diagram #2: <Insert ERD diagram here>

9.12 Report Design

Give a layout of all the printed reports of your prototype system. Each report layout serves as a template for reports to be printed. Number each report according to the following scheme:

Printed report #1: < Insert report here>



Printed report #2: < Insert report here>

Layout of report given here

Do the same for all the reports.

9.13 Appendix

Appendices are <u>optional</u> paragraphs. Bonus marks will be allocated to each appendix. The format is free. It contains additional information of importance for the system. Number each appendix: Appendix A, Appendix B, etc.

9.14 Supporting Documents

The following documents can be used by team members in order to complete some of the deliverables. If necessary, the documents can be adapted to suit the needs of the specific deliverables.

| Client Name: | Estimate/Budget Worksheet Marking Template |
|--------------------|--|
| NGO/NPO details | A cost estimation is prepared in the beginning, outlining the planned cost for the project. The team will also need to hand in an actual cost template incurred during the project in their lessons learnt document. The approach is to consider primarily what it will cost (monetary and hours) to produce the deliverables given in the WBS/DBS and defined by scope, limits and constraints. |
| | The milestone responsibility matrix will provide some indication of the timing and resources required and these must be taken into consideration. |

| | Risk areas identified must be carefully considered and time allowances made for the actions required to manage | |
|----------------|--|---------|
| Sub-Project | Compiled by: | Page no |
| | | |
| Enter sub- | Enter the name of the person who compiled the | |
| projects here. | documents. | |
| Date | Approved by: | |
| Initiated: | | |
| | Supervisor's name | |

Issues to look out for:

- Were there any spelling, grammar or punctuation mistakes?
- Does the information link up with previous document templates, especially the WBS/DBS, milestones objectives template and the risk template?

| Work Element | | Cost Components/Hourly Components | | | | | | |
|------------------|-----------------|-----------------------------------|-----------------|------------------|-----------------------|--------------|----------------|--|
| Description | Equip (H/W) | HR | Matrl (S/W) | Subcon | Contingency (Risk) | Total R | Total Hours | |
| A short | Enter only the | Indicate the | Enter only the | Enter only the | Enter only the | Tally up the | Tally up the | |
| description of | money value for | planned hours | money value for | hours for | hours for | total money | total hours | |
| what needs a | elements | of team | elements | outsourcing a | catching up | value per | planned for | |
| cost budget; all | associated with | members on | associated with | component of the | work associated | work | work per | |
| work elements of | hardware. | elements of the | software, | work elements | with a risk | element. | element. | |
| the project and | | project. | stationary, | (i.e. laying of | identified in a | | | |
| the hours | | | petrol, etc. | network cables). | specific work | | | |
| associated with | | | | | element. | | | |
| the elements. | | | | | | | | |
| Total R | | | | | | | | |
| (Total per cost | | | | | | | | |
| component) | | | | | | | | |
| Total Hours | | | | | | | | |
| (Total per cost | | | | | | | | |
| component) | | | | | | | | |

9.15 Marking Template Feasibility Study

- A feasibility study highlights whether a project is feasible or not;
- Three specific feasibility study aspects must be included in the reports:
 - Operational Feasibility Will the system undertaken solve the problems which exist in the company/NGO? Will it be possible to complete the project in the given timeframe?
 - Technical Feasibility Assessing the proposed technological requirements against the available expertise. (Do they have the knowledge and experience to undertake aspects of the project? If not, what will they do to obtain the knowledge, who will they consult, etc.?);
 - <u>Economic Feasibility</u> Economic Feasibility consists of two tests:
 - Is the anticipated value of the benefits greater than projected costs
 of development? (Include reference to tangible [has a money value]
 and intangible benefits [cannot be measured with money value such
 as being more effective in decision making]);
 - Does the organisation have adequate cash flow to fund the project during the development period? (Refer to the following here: trading division development cost is free, i.e. you do not get paid for the work that you will be completing; if you do need components such as h/w and s/w, you need to include that sponsorships need to be obtained (from where?) or maybe the NGO said that they will pay for those components. Other development costs which you can include are: Salaries and wages; equipment and installation; software licences; training; consultation fees; facilities and their use; utilities and tools; support staff and travel expenses.)

Other issues to look out for:

- Were any spelling, grammar or punctuation mistakes made?
- Does the information link up with previous document templates?

| Client Name: | Milestone Responsibility Chart Marking Template |
|--------------------|--|
| NGO/NPO details | During the initiation phase and project plan, the group identifies the core project team, as well as any other stakeholders (client, supervisor and other lecturers). These entities need to be identified based on their influence or involvement in the project milestones/deliverables. The project team indicates the involvement of the responsible entities according to the milestones developed in the WBS/DBS and the Milestones Objective Chart. This is done by placing the symbols representing the role of the responsible entities alongside the corresponding milestones. In this matrix, the rows represent the milestones and the columns the responsible entities. |

| Sub-Project: | Compiled by: | Page no |
|---|--|---------|
| Enter sub- projects in here (database, networking, etc.) | Enter the name of the person who compiled the documents. | |
| Date Initiated: | Approved by: | |
| | Supervisor's name | |
| | | |

| ID | Description | Responsible Entity | Responsible Entity | Responsible Entity |
|--------------|----------------|-----------------------|-----------------------|-----------------------|
| Indicate the | A short | | | |
| same ID | description of | | | |
| number from | the task/ | | | |
| Milestones | milestone/ | | | |
| Objectives | activity | | | |
| Chart for | | | | |
| each work | | | | |
| element. | | | | |

The following rules apply to the use of the symbols:

- Each row must contain at least a D, P and X;
- There can be multiple Cs on a row but only one D and P;
- There can be multiple symbols in a cell;
- No student responsible entity can have only C, D, P or I symbols; they must have X symbols.

| Goal | ID | Plan | Description | Completion | Report | Report |
|--------|----|------|-------------|------------|--------|--------|
| Routes | | Date | Description | Date | Date | Report |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| Client Name: | Milestone Objective Chart | | | | |
|-----------------------------------|---|---------|--|--|--|
| NGO/NPO details | You need to complete two of these. The first one will be during the planning stage in the project's life cycle. Here all the details on the document inform us of the timeframes they are planning to follow; The objective of the Milestones Objective chart is to map how the project will proceed from start to finish, i.e. the sequence of tasks. | | | | |
| | The general rule is that there should not be more than 15—25 tasks; if there are more, the project should be sub-divided into smaller projects. If your group struggles to fit all tasks into one template, you may complete a milestone objective template and activity diagram for each component (i.e. Database, Network, etc.). | | | | |
| Sub-Project: | Compiled by: | Page no | | | |
| (E.g. database, networking, etc.) | Enter the name of the person who compiled the documents. | | | | |
| | Approved by: | | | | |
| | Supervisor's name | | | | |

| Goal Routes | ID | Plan Date | Description | Completion Date | Report Date | Report |
|----------------|--------------|---------------|--------------|--------------------|----------------|----------------|
| An activity | ID refers to | Planned | A short | Completion | Report date | Whom they |
| diagram/a | а | date must | description | date must | must | will report to |
| Gantt chart | referencing | indicate the | of the task/ | indicate the | indicate the | on the |
| can be | number, | calendar | milestone/ | calendar | calendar | progress or |
| included | which links | date on | activity. | date on | date on | successful |
| as an | to the | which they | | which they | which they | completion |
| appendix. | diagram. | plan to start | | plan to | plan to | of the task/ |
| Highlight | | the task/ | | complete | report | milestone/a |
| the critical | | milestone/ | | the task/ | progress or | ctivity. |
| path on | | activity. | | milestone/ | successful | |
| the | | | | activity. | completion | |
| diagram! | | | | | of the task/ | |
| | | | | | milestone/a | |
| | | | | | ctivity. | |

Indicate the number of days you plan each task to take. Include a column stating
the number of days taken to complete task; this is the difference between the
planned start and completion dates.

9.16 Marking Template Project Charter

- This is a contract between the project team members, their client (NGO/NPO) and project supervisor (on behalf of <u>trading division</u> and the Faculty);
- It should include the following:
 - Project (what the project consists of, same as what is in scope);
 - Start and Completion Dates (these dates are examples and must be relevant to the current project);
 - Stakeholders with each stakeholder's role and responsibility;
 - Objectives of the project;
 - Performance measures (how we will benchmark whether the project was a success or not):
 - Signed component where each stakeholder signs his or her agreement to the details of this charter and the project. (NB. The charter must first be checked and only when the supervisor is satisfied with the contents, can it be signed and filed.).

| Client Name: | Project Purpose and Objectives | | | | | |
|------------------------------|--|--|---|--|---|--|
| (Enter Client Name.) | | | | | | |
| Sub-Project: | Compiled by | : | Date Initiated | : | | |
| (Enter the scope of | (Enter the nar | ne of the | (Starting date | for project) | | |
| your project.) | person who co | ompiled | | | | |
| | the document | s.) | | | | |
| | Approved by | : | | | | |
| | (Enter the faci | ilitators' | | | | |
| Project Purpose/ Mission: | Enter the purp | ose/missio | on of your speci | fic project. | | |
| Objectives and | Enter objective | es and per | formance indica | ators, which v | vill | |
| Performance | allow MGI to e | evaluate th | e successfulnes | ss of your pro | ject. | |
| Measures: | | | | | | |
| Client Name: | Risk Evaluati | on Matrix | Marking Temp | olate | | |
| NGO/NPO details | A possible tool is the project risk analysis matrix shown below. This matrix can be used to assess the likelihood of the risk occurring and the consequences/impacts of the risk. The result of this analysis is the severity level. | | | | | |
| | | | Consequenc | e /Impact | | |
| | | | High (5) | Medium (3) | Low (1) | |
| | Likelihood | High (5) | 25 | 15 | 5 | |
| | Of occurrence | Medium (3) | 15 | 9 | 3 | |
| | | Low (1) | 5 | 3 | 1 | |
| | have gained a critical to the strisk's likelihood change, there planned risks Therefore, earlies assessments, attention to which the occur (included in the actual risks the risks the critical to the string and the string and the string and the string and the string are string | better und success of d of occurred by changir might not ch project of One is for nat might of rence if it is seir lessons at occurred | evaluation, the derstanding of valuation of value the project. Ristrence or impacting the severity leaven materialised their planning procur and how the materialises. As a learned document of and explains value that risk. | which areas a which areas a k is dynamic. on a project evel. In additing within the pand in two ristances, drawing the team will desecond templanent) outlines | re A could on, roject. c ng deal ate the | |

| Sub-Project: | Compiled by | ': | | Page no |
|-------------------------|-----------------|------------|-------------------|------------------|
| Enter sub-projects in | Enter the nan | | | |
| here. | compiled the | • | | |
| TICIC. | Approved by | |). | |
| | Approved by | · • | | |
| | Supervisor's | name | | |
| Risk Area | Occurrence | Impact | | Risk Response |
| | H/L/M | H/L/M | | |
| Identify the type of | Use the matri | X | Describe how | the risk will be |
| risk and where it | discussed abo | ove to | handled if it oc | curs. |
| might occur. | calculate the | identified | | |
| | risk's impact a | and | | |
| | likelihood. | | | |
| Client Name: | Initial Scope | , Constrai | nts and Limitin | g Criteria |
| | | | | |
| (Enter Client Name.) | | | _ | |
| Sub-Project: | Compiled by | : | Date Initiated | : |
| (Enter the Scope of | (Enter the na | me of the | (Starting date | for project) |
| your Project, what | person who c | | (Otanting date | ioi projecti |
| your project entails.) | the document | - | | |
| your project critains.) | Approved by | | | |
| | Approved by | • | | |
| | (Enter the fac | ilitators' | | |
| | name.) | | | |
| Scope, Constraints | Enter the sco | pe of your | specific project. | |
| and Limiting | | - | | |
| Criteria: | | | | |
| What is out of | | | | |
| scope: | | | | |

10 Table of Skills

Use the table below to confirm whether you have mastered the skills listed.

| REQUIRED SKILL | ACHIEVED/NOT ACHIEVED |
|--|-----------------------|
| Participate as a team member. | |
| Be a responsible team member. | |
| Understand aspects within the case study, i.e., | |
| problem domain, system requirements, | |
| processes, etc. | |
| Determine aspects within the project schedule, | |
| i.e., milestones, WBS, risk management, etc. | |
| Analysis of requirements for the business | |
| solution, i.e., functional requirements, use-case | |
| diagrams, etc. | |
| Design aspects for the system solution, i.e., GUI, | |
| database, reports, mobile apps, website, etc. | |
| Implementation of the system solution, i.e., | |
| coding the GUI, input controls, modules, | |
| database, etc. | |
| Verification and testing of the system solution | |
| using appropriate input/output. | |
| Development of aspects within the user | |
| documentation/manuals and support files. | |
| Demonstration of a working prototype system. | |
| Presentation preparation, i.e., setup of allocated | |
| venue, dress-code, PowerPoint presentation, etc. | |
| Project presentation i.e., presentation of final | |
| working project. | |

11 Intellectual Property

Plagiarism occurs in a variety of forms. Ultimately though, it refers to the use of the words, ideas or images of another person without acknowledging the source using the required conventions. The IIE publishes a Quick Reference Guide that provides more detailed guidance, but a brief description of plagiarism and referencing is included below for your reference. It is vital that you are familiar with this information and the Intellectual Integrity Policy before attempting any assignments.

Introduction to Referencing and Plagiarism

What is 'Plagiarism'?

'Plagiarism' is the act of taking someone's words or ideas and presenting them as your own.

What is 'Referencing'?

'Referencing' is the act of citing or giving credit to the authors of any work that you have referred to or consulted. A 'reference' then refers to a citation (a credit) or the actual information from a publication that is referred to.

Referencing is the acknowledgment of any work that is not your own but is used by you in an academic document. It is simply a way of giving credit to and acknowledging the ideas and words of others.

When writing assignments, students are required to acknowledge the work, words or ideas of others through the technique of referencing. Referencing occurs in the text at the place where the work of others is being cited, and at the end of the document, in the bibliography.

The bibliography is a list of all the work (published and unpublished) that a writer has read in the course of preparing a piece of writing. This includes items that are not directly cited in the work.

A reference is required when you:

- Quote directly: when you use the exact words as they appear in the source;
- <u>Copy directly:</u> when you copy <u>data, figures, tables, images, music, videos</u> or frameworks;
- Summarise: when you write a <u>short account</u> of what is in the source;
- Paraphrase: when you state the work, words and ideas of someone else <u>in your</u> own words.

It is standard practice in the academic world to recognise and respect the ownership of ideas, known as <u>intellectual property</u>, through good referencing techniques. However, there are other reasons why referencing is useful.

Good Reasons for Referencing

It is good academic practice to reference because:

- It enhances the quality of your writing;
- It demonstrates the scope, depth and breadth of your research;
- It gives structure and strength to the aims of your article or paper;
- It endorses your arguments;
- It allows readers to access source documents relating to your work, quickly and easily.

Sources

The following would count as 'sources':

- Books,
- Chapters from books,
- Encyclopaedias,
- Articles,
- Journals,
- Magazines,
- Periodicals,
- Newspaper articles,
- Items from the Internet (images, videos, etc.),
- Pictures,
- Unpublished notes, articles, papers, books, manuscripts, dissertations, theses, etc.,
- Diagrams,
- Videos,
- Films,
- Music,
- Works of fiction (novels, short stories or poetry).

What You Need to Document from the Hard Copy Source You are Using

(Not every detail will be applicable in every case. However, the following lists provide a guide to what information is needed.)

You need to acknowledge:

- The words or work of the author(s),
- The author(s)'s or editor(s)'s full names,
- If your source is a group/ organisation/ body, you need all the details,
- Name of the journal, periodical, magazine, book, etc.,
- Edition,
- Publisher's name,
- Place of publication (i.e. the <u>city</u> of publication),
- Year of publication,
- Volume number,
- Issue number,
- Page numbers.

What You Need to Document if you are Citing Electronic Sources

- Author(s)'s/ editor(s)'s name,
- Title of the page,
- Title of the site,
- Copyright date, or the date that the page was last updated,
- Full Internet address of page(s),
- Date you accessed/ viewed the source,
- Any other relevant information pertaining to the web page or website.

Referencing Systems

There are a number of referencing systems in use and each has its own consistent rules. While these may differ from system-to-system, the referencing system followed needs to be used consistently, throughout the text. Different referencing systems cannot be mixed in the same piece of work!

A detailed guide to referencing, entitled <u>Referencing and Plagiarism Guide</u> is available from your library. Please refer to it if you require further assistance.

When is Referencing Not Necessary?

This is a difficult question to answer – usually when something is 'common knowledge'. However, it is not always clear what 'common knowledge' is.

Examples of 'common knowledge' are:

- Nelson Mandela was released from prison in 1990;
- The world's largest diamond was found in South Africa;
- South Africa is divided into nine (9) provinces;
- The lion is also known as 'The King of the Jungle'.
- $E = mc^2$
- The sky is blue.

Usually, all of the above examples would not be referenced. The equation $E=mc^2$ is Einstein's famous equation for calculations of total energy and has become so familiar that it is not referenced to Einstein.

Sometimes what we think is 'common knowledge', is not. For example, the above statement about the sky being blue is only partly true. The light from the sun looks white, but it is actually made up of all the colours of the rainbow. Sunlight reaches the Earth's atmosphere and is scattered in all directions by all the gases and particles in the air. The smallest particles are by coincidence the same length as the wavelength of blue light. Blue is scattered more than the other colours because it travels as shorter, smaller waves. It is not entirely accurate then to claim that the sky is blue. It is thus generally safer to always check your facts and try to find a reputable source for your claim.

Important Plagiarism Reminders

The IIE respects the intellectual property of other people and requires its students to be familiar with the necessary referencing conventions. Please ensure that you seek assistance in this regard before submitting work if you are uncertain.

If you fail to acknowledge the work or ideas of others or do so inadequately this will be handled in terms of the Intellectual Integrity Policy (available in the library) and/ or the Student Code of Conduct – depending on whether or not plagiarism and/ or cheating (passing off the work of other people as your own by copying the work of other students or copying off the Internet or from another source) is suspected.

Your campus offers individual and group training on referencing conventions – please speak to your librarian or ADC/ Campus Co-Navigator in this regard.

Reiteration of the Declaration you have signed:

- 1. I have been informed about the seriousness of acts of plagiarism.
- 2. I understand what plagiarism is.
- 3. I am aware that The Independent Institute of Education (IIE) has a policy regarding plagiarism and that it does not accept acts of plagiarism.
- 4. I am aware that the Intellectual Integrity Policy and the Student Code of Conduct prescribe the consequences of plagiarism.

5. I am aware that referencing guides are available in my student handbook or equivalent and in the library and that following them is a requirement for successful completion of my programme.

- 6. I am aware that should I require support or assistance in using referencing guides to avoid plagiarism I may speak to the lecturers, the librarian or the campus ADC/Campus Co-Navigator.
- 7. I am aware of the consequences of plagiarism.

Please ask for assistance prior to submitting work if you are at all unsure.

ANNEXURE A

Template A: Portfolio of Evidence

Portfolio of Evidence

| Name of Student: | |
|-------------------------|--|
| Student Number: | |
| Names of Group Members: | |
| Date: | |
| Programme: | |
| Campus: | |
| NGO/NPO/campus based: | |
| Lecturer/Mentor: | |

SELF and PEER EVALUATION FORMS

Please complete and submit this self-/peer evaluation form to your lecturer before your final PoE submission.

This form contains confidential information. Do not discuss your evaluation with your team members. This must be submitted individually.

| IN | PEER EVALUATION PEER EVALUATION | N | | | |
|--------|---|----------|----------|------------|---------|
| TEAN | NAME/NUMBER: D | ATE: | | | |
| the as | e rate each of your <u>project team members</u> using ssessment criteria descriptions provided. Marks eam will be added up and then averaged. Eac ate evaluation form completed. | received | d from e | each me | mber of |
| Nam | e of student being evaluated: | Never | Seldom | Frequently | Always |
| | | 0 | 1 | 2 | 3 |
| The | student's personal work | | | | |
| 1. | He/she contributed good ideas that added value to the project. | | | | |
| 2. | He/she performed his or her tasks in line with what was expected of him/her. | | | | |
| 3. | He/she produced high quality work. | | | | |
| 4. | He/she managed his/her own time well and met deadlines. | | | | |
| The | student's work as part of a team (when relevant) | | | | |
| 5. | He/she accepted responsibility for a fair portion of the tasks. | | | | |
| 6. | He/she was an enthusiastic member of my team. | | | | |
| 7. | He/she helped others to be successful. | | | | |
| 8. | He/she worked well with other members of the team. | | | | |
| | totals | | | | |
| TOT | AL: /24 | | | | |
| Comr | nents: | | | | |
| ΝΔΜΙ | | :• | | | |



WIL SELF-EVALUATION

| STUDENT NAME: STU | UDENT NUMBER: | DATE: |
|-------------------|---------------|-------|
|-------------------|---------------|-------|

Please rate <u>yourself</u> using the following scale detailed in the descriptions provided:

| Criteria | You've learned Something — but you're track but you can do not proving it! 2 You're on the right track but you can do better! | | 3 Well done! | 4 Bravo! You've done exceptionally well! | Score |
|------------|--|---|--|---|-------|
| Reflection | I did not think about what I had learned at all; I do not know how to think about my learning; I cannot provide details and examples about what and how I learned. | I can think about some of my learning, but this did not cover the whole project; I can only give examples for some of what I learned; I cannot fully explain what I have learned. | I could think about what I learned in all parts of the project; I could always give an example of what and how I learned; I could always explain what and how I had learned. | I really understand and can explain to others how I learned in the WIL module; I can provide many examples for what and how I learned for all parts of the WIL module; I think that I can explain all aspects of my learning in all aspects of the WIL module; Reflection is complete and done well. | |

| Criteria | 1 You've learned something — but you're not proving it! | You're on the right track but you can do better! | 3 Well done! | 4 Bravo! You've done exceptionally well! | Score |
|---------------------------|--|--|--|---|-------|
| Demonstration of learning | I can describe my experiences and events in the WIL module. | I can describe and briefly explain my experience and events in the WIL module, but I do not think that I can fully explain all my learning. | I have tried to analyse and explain my experience and events in the WIL module, but I am not sure that I have completely explained everything. | I can fully explain my experience and events in the WIL module; I can clearly explain how all my learning in the WIL module occurred; I can relate my experience and events in the WIL module to how my learning occurred and how I developed in this module. | |
| Quality of ideas | The ideas that I discussed did not relate to my experience and events in the WIL module. | The ideas that I have discussed relate to my experience and events in the WIL module; I cannot provide explanations and examples. | The ideas that I have discussed clearly relate to my experience and events in the WIL module; I can provide some examples and explanations. | The ideas that I have discussed clearly and coherently relate to my experience and the events in the WIL module; I have provided detailed explanations and examples for all of my experiences and events in the WIL module. | |

| Criteria | 1 You've learned something — but you're not proving it! | You're on the right track but you can do better! | 3 Well done! | 4 Bravo! You've done exceptionally well! | Score |
|------------------------|--|--|--|--|-------|
| Organisation of report | I have presented my ideas, but could not order them logically. | I have organised my ideas, but they do not really link to one another. | My ideas are organised and they all link to one another. | My ideas are well organised, because they all link together to provide a comprehensive, logically ordered discussion of the WIL module. | |
| Clarity of report | I have not written the report clearly; The report is confusing. | There are many parts of my report that are confusing. | There are a few parts of my report that are not clear. | The language throughout my report is clear and expressive; Whoever reads my report can create a mental picture of the situation being described; Somebody who knows nothing about the WIL module could read my report and understand exactly what happened and what I did. | |
| TOTAL SCOR | E: | | | | /20 |



SUPERVISOR OR COORDINATOR EVALUATION REPORT

Evaluation of Student by Supervisor or Coordinator

| | Evaluation of Student by Supervisor | | | | | |
|----------------------------------|---|---|--------|-----------|------------|--------|
| Name of student being evaluated: | | | Seldom | Sometimes | Frequently | Always |
| Name | of person doing evaluation: | | | | | |
| | | 1 | 2 | 3 | 4 | 5 |
| The st | udent's personal work | | | | | |
| 1. | He/she contributed with good ideas that added value to the project. | | | | | |
| 2. | He/she performed his or her tasks in line with what was expected of | | | | | |
| | him/her. | | | | | |
| 3. | He/she produced high quality work. | | | | | |
| 4. | He/she managed his/her own time well and met deadlines. | | | | | |
| The st | udent's work as part of a team (when relevant) | | | | | |
| 5. | He/she accepted responsibility for a fair part of the tasks. | | | | | |
| 6. | He/she was an enthusiastic member of the team. | | | | | |
| 7. | He/she helped others to be successful. | | | | | |
| 8. | He/she worked well with others. | | | | | |
| Sub-to | otals | | | | | |
| | | | | | | |

ANNEXURE B

PRESENTATION RUBRIC

NAME OF STUDENTMODULE:MODULE:

| CRITERIA | | RIA 1 — You have learned something — but you are not proving it! | | 2 — You are on the right track but you can do better! | | 3 — Well done! | | 4 — Bravo! You have done exceptionally well! | | TOTAL |
|------------------|--|--|--|---|--|----------------|--|--|---|-------|
| NONVERBAL SKILLS | | | | | | | | | | |
| • E | Audience Engagement; Body Anguage; Poise; Oress code. | • | Makes no attempt to interact with the audience; Does not promote engagement, sits during his/her part of the presentation; Unprepared, does not cope with interruptions during presentation; Clothing inappropriate for purpose of presentation. | • | Sometimes interacts with one or two members of the audience; Tense, anxious, appears defensive, distracting, unnatural and unnecessary movement; Does not recover well when making mistakes; Clothing is not entirely appropriate for purpose of presentation. | • | Has frequent interaction with the same people in the audience; Movements enhance delivery, some interaction with the audience; Recovers quickly and smoothly when mistakes are made; Neat, well-groomed, mostly appropriately dressed for the purpose of the presentation. | • | Holds attention through direct interaction with various members of audience; Stands up straight, engaged, interested, positive; Interacts with audience, no distracting movements; Professional, well- groomed, entirely appropriately dressed for the purpose of the presentation. | |

| CRITERIA | | 1 — You have learned | | | 2 — You are on the | | 3 — Well done! | | Bravo! You have | TOTAL |
|----------|--|----------------------|--|---|--|---|--|-----|---|-------|
| | | | nething — but you not proving it! | _ | t track but you do better! | | | don | e exceptionally well! | |
| VER | BAL SKILLS | | | | | | | | | |
| • | Tone; Language; Delivery. | • | Too loud/too soft, abrupt, condescending; Inappropriate, in poor taste, mumbles, incorrect use of terminology; Shows no interest in topic or activity/does not participate in oral part of presentation. | • | Cannot be heard by audience; Unable to articulate ideas; Mumbles, appears distracted or unfocussed, reads notes word for word. | • | Varies volume and pitch; Correct use and pronunciation of terms; Thoughts well-articulated, uses own words, but unable to keep audience engaged throughout presentation. | • | Clear, easy to listen to, articulate; Correct and effective use of language; Enthusiastic, relaxed, self-confident, seldom refers to notes, maintains interest of audience throughout presentation. | |
| VISU | JAL AIDS | | | | | | | • | | |
| • | Physical, e.g. posters, models, charts, etc.; Electronic, e.g. video, computer simulation; | • | Unrelated to presentation. | • | Poor, distracts audience, adds nothing to presentation. | • | Commercially available visual aids, relevant to topic, enhance understanding and explanation. | • | Original visual aids, relevant to topic, support and enhance understanding and explanation. | |
| • | PowerPoint slides. | | | | | | | | | |

| CRITERIA | | 1 — You have learned something — but you are not proving it! | | | 2 — You are on the right track but you can do better! | | 3 — Well done! | | 4 — Bravo! You have done exceptionally well! | |
|----------|---|--|---|---|--|---|--|---|--|--|
| • • | Timing; Structure, e.g. introduction, conclusion. | • | Presentation is too short or takes much longer than allocated time; Disjointed, unstructured, no introduction and/or conclusion. | • | Presentation is somewhat close to the allocated time; Audience has difficulty following discussion, content presented haphazardly without appropriate structure. | • | Length of presentation close to allocated time; Mostly structured, easy to follow in spite of occasional lapses in logical flow. | • | Length of presentation close to allocated time; Structured, logical flow, accompanied by good explanations that aid understanding. | |
| SUI | BJECT KNOWL | EDG | E | | on dotaro. | | | | | |
| • | Concepts; Depth. | • | Demonstrates no understanding of concepts; Is unable to answer any questions, when required. | • | Demonstrates limited understanding of concepts; Has difficulty answering questions. | • | Demonstrates adequate understanding of concepts; Able to answer most questions. | • | Demonstrates deep understanding of concepts; Is able to provide in depth explanations in response to all questions. | |

| GROUP DYNAMIC Interaction with: • | | | | | |
|--|--|--|--|---|--|
| Interaction with: • | | | | | |
| Team members; Audience. | Does not participate in presentation; Does not respond to feedback (verbal and nonverbal) from audience. | Little participation in presentation; Occasionally responds to feedback (verbal and nonverbal) from audience. | Participates in presentation, shares responsibilities with peers; Frequently responds to feedback (verbal and nonverbal) from audience. | Participates enthusiastically in presentation, supports peers, takes lead when appropriate; Smoothly integrates appropriate feedback (verbal and nonverbal) from audience into presentation. | |

| GENERAL FEEDBACK: | |
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| TOTAL | /25 |

ANNEXURE C

LECTURER FEEDBACK

| PHASE | TASK | STUDENT | MAXIMUM | STUDENT | WEIGHT | LECTURER FEEDBACK |
|--------------|------------------|-------------------|---------|---------|-----------------------------------|-------------------|
| | | SUBMISSION | MARK | MARK | 2 nd / 3 rd | |
| | | | | | year | |
| PROJECT | Project Planning | Documentation | 100 | | 20 | |
| | and | | | | | |
| | Requirements | | | | | |
| | Analysis | | | | | |
| | Project | Documentation | 100 | | 20 | |
| | Progression | | | | | |
| | Project | Project prototype | 100 | | 20 | |
| | Implementation | and feedback | | | | |
| PRESENTATION | Final Project | PowerPoint slides | 100 | | 20 | |
| | Presentation | and Final project | | | | |
| | | explanation. | | | | |
| | | (Lecturer to | | | | |
| | | complete | | | | |
| | | Annexure B) | | | | |

| PHASE | TASK | STUDENT SUBMISSION | MAXIMUM MARK | STUDENT MARK | WEIGHT 2 nd /3 rd year | LECTURER FEEDBACK |
|------------|--|-----------------------|-----------------|-----------------|--|-------------------|
| REFLECTION | Peer- evaluation | Annexure A | 24 | 7000 00 00 0 | 0/5 | |
| | Self- evaluation | Annexure A | 20 | | 10/15 | |
| ATTENDANCE | Attendance of classes or with stakeholder/employer | | 5 | | 5 | |
| TOTAL | | | /100 | | | |

| ditional Comments: | |
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ANNEXURE D

ATTENDANCE RECORD

| Student | W1 | W2 | W3 | W4 | W5 | W6 | W7 | W8 | W9 | W10 | W11 | W12 |
|---------|----|----|----|----|----|----|----|----|----|-----|-----|-----|
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ANNEXURE E

DECLARATION OF AUTHENTICITY

Declaration of authenticity

| I, | ID N | Number, | |
|----------------------------|-----------------------|--|---------|
| hereby declare that | this portfolio, and a | any evidence included therein, con ave not received help from other gr | tains |
| | - | olagiarism in the accomplishment o ed experimental data. | of this |
| I accept the academ above. | ic penalties that ma | ay be imposed for violations of the | ! |
| STUDENT SIG | NATURE | DATE | |

ANNEXURE F

LETTER TEMPLATES FOR STAKEHOLDERS

Your WIL may require an interaction or placement at a place of work or NGO/NPO. <u>Please obtain the forms from your campus WIL co-ordinator</u> and as instructed, complete the form and get the relevant signatures.

This form should be submitted to your lecturer at the first submission point where your initial WIL project plan is presented. A copy of this letter must be included in your final project/PoE file for submission.

STUDENT APPLICATION FOR A PLACEMENT: LETTER TO ORGANISATION

TO BE COMPLETED BY STUDENT REQUIRING A LETTER FROM THE CAMPUS

| DATE: | |
|-------------------------|-------------|
| STUDENT NUMBER: | |
| QUALIFICATION: | |
| NAME AND SURNAME: | |
| SIGNATURE: | |
| ADDRESS OF COMPANY: | |
| | |
| NAME OF CONTACT PERSON: | |
| TELEPHONE NUMBER: | |
| E-MAIL ADDRESS: | |

LETTER TO POTENTIAL PLACEMENT/INVESTIGATION OR OBSERVATION ORGANISATION

Brand Letterhead Date

Student number: xxxxxxxx

Name: Student full names and surname
ADDRESS: Name of company/organisation

Company address

Dear Prof/Dr/Mr/Mrs/Miss

OPPORTUNITY FOR WORK INTEGRATED LEARNING

The Independent Institute of Education (The IIE) is a registered and accredited private higher education provider. Brand name is a brand of The IIE. One of our key aims with all our qualifications is to ensure students are work ready and that includes providing opportunities, where relevant or appropriate, for students to either observe or investigate a workplace or in fact spend some time on a placement in such an environment.

In the case of the Name of programme, the requirement is brief outline of requirement and, as briefly mentioned in our conversation earlier, we would be grateful if you could accommodate number of student/s for duration period to carry out the requirement. In particular, the student/s would need to slightly more detailed explanation of what the student must do.

Our students are briefed and trained in relation to professional conduct at work and our expectations of them when they are with you — we will also provide you with a direct contact person on the campus for questions, queries or concerns.

If you are able to consider this request, I will provide you with more complete information. In the interim, included please find the necessary background information in terms of the Work Integrated Learning outcomes to be assessed during this period. Please do not hesitate to contact me if you would like more information before making a decision.

Looking forward to hearing from you at your earliest convenience.

| Name of your Coordinator | |
|--------------------------------|----------------|
| WORK INTEGRATED LEARNIN | NG COORDINATOR |
| Brand name and campus | |

Name of Principal

Yours sincerely,

PRINCIPAL

CONFIRMATION LETTER FOR WORK INTEGRATED LEARNING PLACEMENT

Date

ADDRESS: Company Name

Company address

Dear Prof/Dr/Mr/Mrs/Miss

CONFIRMATION OF WORK INTEGRATED LEARNING PLACEMENT

I have pleasure in confirming our recent discussion where your organisation indicated that the following opportunities are available:

- 1. A enter time period Work Integrated Learning for a student completing the enter name of qualification.
- 2. Duties during placement will include:
 - 2.1
 - 2.2
 - 2.3
 - 2.4

The student assigned to enter name of company/organisation is full names, surname and student number of student.

The student will make an appointment to meet you in person and will provide the necessary evaluation forms to be completed by a mentor at the end of the Work Integrated Learning period.

We previously provided you with the relevant module information OR Included please find the relevant module information providing you with the requirements of this module. Should you for any reason need to get hold of me, you are welcome to contact me on Tel 000 000 0000 or xxx@xxx.ac.za

Once again, may I express our sincere appreciation of your willingness to assist in this process.

Yours sincerely,

Name of WIL Coordinator

WORK INTEGRATED LEARNING COORDINATOR

PRINCIPAL

Brand name & campus

ANNEXURE G

PROFESSIONAL CONDUCT IN THE WORKPLACE



[DOCUMENT TITLE]

1 Introduction

This learning unit is designed to highlight <u>transferable skills</u>, which are necessary to succeed in the <u>21st century workplace</u>. These skills include teamwork, critical thinking, high-level problem-solving, communication, self-management and career readiness.

After completing this learning unit, you should be able to:

- Conduct yourself professionally in the workplace;
- Apply appropriate interpersonal skills in a professional context;
- Develop yourself and promote your career.

There are short videos and links embedded throughout the learning unit directing you to more readings on important topics. These are designed to give you a deeper understanding of some of the terms and terminology that you will encounter in this learning unit, as well as the circumstances that you may encounter as you enter the workplace.

2 Progressing from student-life to work-life

In the South African economy, employment opportunities are available in a range of very different organisations such as local government, public administration, the banking industry, private business, non-profit organisations and small, medium and micro-sized enterprises (SMME). Each of these potential employers have their own rules, expectations and organisational cultures. This means that you, as a new employee, would need to adapt and fit into this new environment.

The Future: How to create opportunities from change



Source Run time: 1:50

As you move into the workplace, it is your responsibility to manage yourself. When you were at school, somebody actively looked after you (your parents and teachers); at university you were encouraged to explore your identities and given more freedom of choice in your lives. However, you still had parents and lecturers who provided support and guided you.

Once you enter the world of work, you are expected to behave in certain ways and be professional, efficient and effective in your role as an employee. Any actions you choose to follow will have consequences (both good and bad). It is your responsibility to ensure you follow any instructions from your line managers and take control of your own performance and reputation.

Your first line of responsibility before moving into the workplace will be to secure interviews for yourself. Compile your curriculum vitae (CV) and include some specific information which would showcase your abilities and your educational achievements. Some information is considered irrelevant and should be excluded from your CV for various reasons. There are many CV templates on the Internet which you can choose from. If you are applying for jobs which are predominantly in a corporate environment, then your CV should be simple and reflect the formality of the company. However, if you will be applying for jobs with an arty or creative edge then your CV can be much more elaborate and colourful.

You could hear of potential jobs through various channels, such as:

- Word of mouth someone you know may hear about a vacancy and pass on the information.
- Media newspapers and the Internet have thousands of jobs advertised.
- LinkedIn create your own professional profile and upload your CV. Make connections and network in your chosen field.

Recruitment companies.

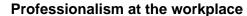
It is important to be professional in your job search and this includes professional email addresses. Email addresses which do not portray you as an employee with integrity should not be used. An email address such as IwantToParty@gmail.com or tequila@yahoo.com will not give a good first impression of you and may be considered junk mail and never be seen by the person who the email is addressed to. Choose a professional looking email address e.g. Vusi.Molefe@gmail.com.

Each year you will have a meeting with your line manager or someone who manages your performance. This is normally called a Performance Review and will have a number of Key Performance Areas (KPAs) which your performance is measured against. You will be notified of these when you enter the workplace and relate to the job profile that you work in. These are reviewed annually as you grow in your job and take on more responsibility. Your salary increases will most probably be based on your KPA score.

One of the most important areas for you to attend to is meeting deadlines. Businesses function on the timeous delivery of their products and services and in most cases the deadlines cannot be extended. Think about your salary, you expect to be paid at the same time every month. What would happen if someone missed a deadline and you were paid a week later or even worse, never received it? Often the work you will be required to complete by a deadline needs to move on to another person or department and if you miss your deadline then you are holding up the process and putting those other employees under pressure to meet their deadlines.

3 Behaviour in the workplace

Your new employer would expect you to conduct yourself professionally and ethically from the first day.

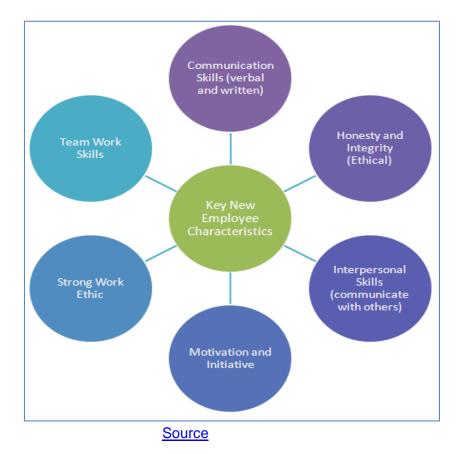




Source Run time: 1:44

Most employers will have an induction programme for new employees, where you will get an introduction into the sections and operations of your new environment. It is a good idea to be prepared and make the most of learning about your new work environment during the induction. However, there is far more that you would need to do and learn. This will help you to understand what is expected of you and what is seen as appropriate behaviour. When you start working in a new position, make sure you know what the <u>organisation's culture</u> is.

The more you understand your new work environment, the sooner you will be able to fit right in.



These key skills are also referred to as <u>interpersonal skills</u> or <u>soft skills in the workplace</u>. Let us look a bit closer at each of these key skills:

3.1 Communication skills

Communication in the workplace must always be professional. It can never be on the same informal level as at home or with friends. If your office environment has a policy that English is the language of business, adhere to it. Professional communication at work includes language proficiency, reading, writing, problem solving and the use of information technologies.

Both written and oral communication in the workplace must always be professional. There are many books and articles written on the dos and don'ts of office communication. Here are some of the most important ones:

Communication Dos and Don'ts:

| DO | DON'T |
|---|--|
| Develop your "business vocabulary". | Never use poor grammar, or slang. |
| Texting in the workplace should only be | Never use the abbreviated language |
| done when it is absolutely necessary. | that you use with your friends on social |
| This article on texting language may be | media. |
| helpful on how to do this. | |
| Listen to the presentations of your | Refrain from using inappropriate |
| managers and research terms and | phrases or any form of sexist, racist or |
| terminology pertaining to your | heteronormative language. |
| environment with which you are not | |
| familiar. | |
| Make use of a spelling and grammar | Do not let anger or frustration reflect in |
| checker when typing emails, reports | the tone of your verbal or written |
| and letters. | communication. Do not use CAPITAL |
| | LETTERS, bold font, slang or emoticons |
| | to indicate frustration. |
| Use the correct letterheads, stationery | Never gossip or constantly complain |
| and templates for official business | about trivial matters or use abrasive |
| communication and refrain from using | language. |
| them for personal use. | |

But what about <u>nonverbal communication in the workplace</u>? Actions such a facial expression, eye contact, gestures and posture communicate far more that you could realise. It could even include the way you dress. Together with verbal communication, nonverbal communication may be used as important cues to strengthen the message. As a new employee, you should be aware how your nonverbal cues can be interpreted.

Consider the following scenario:

Your manager asks you to compile a report and then present this report at a meeting. This task provides you with a number of opportunities to showcase your abilities, work ethic and performance. What choices would you need to make?

There are many considerations, but those listed below are some of the important ones:

Communication:

- The language used in your report. Is it suitable for the audience you will be presenting to?
- Verbal and non-verbal communication skills.

Appearance:

- The clothes you will be wearing to do the presentation. This should again be appropriate for the audience and the occasion.
- It is not advisable to chew gum in an office environment if you are expected to have face-to-face meetings with people or do presentations.

If you are unsure of what you are expected to do, then ask for assistance. Your manager would rather you do this than have a presentation which is not fit for purpose or lacks vital information.

3.1.1 Meetings

Conducting yourself professionally and actively participating in business meetings would require a good understanding of the different types of meetings, their purpose and structure. The business environment generally has regular meetings for a range of business reasons.

Some examples are:

- Staff meetings;
- Product meetings;
- Stakeholder meetings;
- Committee meetings.

Communication in these meetings follows strict <u>meeting protocols</u>. It is also a good idea to take notes during meetings, especially if they are used to allocate work and responsibilities.

3.1.2 Telephone Etiquette

You will be required to be professional in your telephone communication. It is good business practise to state your name when answering your phone. Be polite and take notes if you are being requested to do tasks or pass on a message. Getting the message communicated correctly is an important function in the workplace. Knowledge of Business phone etiquette will assist you in dealing with clients, suppliers and associates in a professional way that will promote both your image and your organisation's reputation.

Another important consideration is your phone's ringtone. Keep it simple and professional.

3.2 Working with others: teamwork and group work

At work, you will be required to work with people, either formally in teams or informally by sharing office environments. Your success will depend on cooperation with individuals and groups. You need a special set of skills when working on a one-on-one situation or in teams. This will require people skills:



Creating Value through People Skills (Source)

To be a good team member, you would need to:

- Build a good rapport with other team members;
- Improve your listening skills;
- Develop speaking and presentation skills;
- Communicate to different audiences;
- Respect diversity;

 Give and receive criticism more effectively without being offensive or taking the criticism personally;

- Be assertive and diligent;
- Resolve conflict and deal with difficult people;
- Develop negotiation skills;
- Build leadership skills.

Many of these skills will be developed over time as you build experience in the workplace and receive further training.

3.2.1 Office politics and social protocols

All offices and organisations will experience office politics. There are many reasons why most work environments go through stages where office politics can cause problems. There are many reasons why these problems may surface and why this should be carefully managed.

Some of the reasons include:

- Employees aspiring to be noticed;
- Employees overstep and cross boundaries and their authority;
- Employees lack supervision and control in the workplace;
- Gossip at work leads to poor office politics;
- Jealous colleagues (professional jealousy) or people who perceive others as a threat.

As a professional, you are responsible for managing difficult situations: <u>How can professional jealousy be prevented?</u>

You will be spending many hours at work. It is, therefore, important that these situations be handled with great care and professionalism to prevent the conflict and to keep office relationships professional.

Dealing with differences in opinion and conflict is an important life skill to have which can be effectively used in the workplace. It is important to regulate your emotions and not take other individuals' opinions personally. Do not email or phone anyone until you have thought through your response carefully and remove all emotions out of your communication. If you do not, you run the risk of inflaming the situation and coming across as volatile and unprofessional.

3.2.2. Professional networking

Networking with co-workers in the organisation and with professional bodies helps you to grow and develop your skills and career and build communities of practice. Social networking such as creating professional profiles on <u>LinkedIn</u> helps to open up opportunities, create awareness and build your professional portfolio.

4 Ethics, trust, honesty and integrity

Ethical behaviour means you are doing the right thing for the right reasons, e.g. not taking home office stationery, using the company's Internet connectivity for personal use, gossiping about fellow employees, harassment and discrimination of any kind. There are various offences you could commit in the workplace, which you could possibly be fired for. Many are related to ethics, such as stealing, revealing confidential information, insubordination, dereliction of duty, harassment and discrimination etc.

You want to trust your employer and believe that they will always have your best interest at heart. Your professional conduct will create a mutual trust relationship at the organisation. This requires <u>ethical behaviour</u>, knowing what is right and acting accordingly. Ethics is doing the right thing even when no-one is watching.

The following are some pointers that will guide you towards creating this trust relationship:

- Never exaggerate on a <u>Curriculum Vitae</u> or add skills and qualifications that you
 do not have.
- Be punctual for meetings and appointments.
- Meet deadlines.
- Do what you said you will do and communicate immediately if you are not able to honour your commitments.
- Conform to the organisational culture and stick to the "rules".
- Be open and honest with your colleagues and manager if something goes wrong.
 Do not lie.
- Respect your organisation, their resources and management.
- Sensitive information must be kept confidential. This includes any information about your salary or other forms of remuneration. You may not discuss with other employees how much you earn.
- Do not use the organisation's resources such as stationery, Internet connectivity and telephones for personal purposes.

5 Managing professional spaces and appearances

One of the biggest adjustments that is required when bridging the stage of being an informal student to a professional in the workplace is dress code. Would you trust a Bank Manager who wears dirty shoes, chews gum and uses informal language or slang? You must dress for success – you must look the part if you want to succeed. Dressing appropriately will boost your self-confidence. Read this article for more information: 20 Personal Appearances Tips for the Workplace.

In open office environments, it is particularly important to consider your colleagues in the shared space. These are some of the areas that can cause conflict:

- <u>Noise</u> Do not talk too loudly as you may distract your colleagues from their work.
 It is very difficult to concentrate when there is too much noise.
- <u>Temperature</u> Do not adjust the temperature of the air conditioner. These are normally set at a standard temperature, which is considered comfortable for the majority of people. This is around 23 degrees. If you feel too hot or cold then plan to adjust your personal space (an extra jersey, lap blanket, or a desk fan) to your comfort level.
- <u>Neatness</u> Keep your office area neat and organised. You may be permitted to personalise your area with photographs or other small items. Keep these to the minimum so they do not intrude on your workspace. All décor must be appropriate and portray a professional image.
- <u>Smells</u> Keep the smelly food for home. Your colleagues may not appreciate your tuna or garlic-laced lunch.

6 Behaviour and conduct outside of working hours

Your conduct outside of office hours is as important as your conduct during working hours. This is also true for your online behaviour. Recruiters and companies often scrutinise online social media and behaviour when they decide on the suitability of a candidate. If you are irresponsible and post inappropriate pictures or comments, it may cost you your job.

The following are actions on social media that may have dire consequences for you as an employee:

- Making negative comments about your manager, your colleagues or organisation.
- Making derogatory comments or commenting on controversial social media posts.
- Mentioning salaries, complaining about your salary or new job offers.
- Sharing photos of wild parties, alcohol consumption and nudity.
- Making threats online, even jokingly.

The conduct and standards expected for online communication is often referred to as Netiquette.

7 Contracts and legal matters

When you start working either permanently, as an intern or as a contract employee, you need to know what your responsibilities and rights are in advance. The very first document you will be expected to sign will be your conditions of service for employment. These are normally standard for colleagues in the same or similar positions but could have been customised to include additional responsibilities as the job requires. Read your contracts carefully before signing them as by signing them you acknowledge that you are accepting the tasks specified. Ask if you do not understand certain clauses and information.

8 In Closing

It is better to be well prepared and have the appropriate expectations when you enter the job market. In this learning unit, we introduced some areas that will assist you in this preparation. It is also important to realise that we live in a fast-paced world where technology, information and situations constantly change.

In summary, make sure that you always stay informed and well-prepared, keep records and conduct yourself in a way that will grow your opportunities to your long-term advantage.

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