“Surveyor Name”

Executive Summary

Mining “UM” Framework

Underground Metalliferous

Planning For Endorsement

Refer to the elements and descriptors of the executive summary to determine if you have the experience and practical examples sufficient to demonstrate competence in each descriptor of the framework.

Sufficient Experience and examples in all descriptors

If you believe you have the experience and documentary evidence to demonstrate competence you should apply to undertake assessment in the framework. You should consider the Oral assessment option or if you prefer you can submit your material by written CERs either all at once or progressively. You are required to complete your Executive summary and submit it with your application. If submitting progressively the executive summary should only address descriptors that have been assessed previously or descriptors covered in the current submission.

Additional Experience or CER projects required

Planning should be developed in consultation with the applicant’s supervisor or mentor and address such things as time frames, mentoring / training, work portfolio, potential work limitations and how they will be addressed. The Training Plan should readily identify a timeframe within which competency will be demonstrated.

Training Plan (Use your own format, example below in blue)

All additional experience required will be completed and submitted for assessment by March, 2016. The following description of tasks and actions has been reviewed by my supervisor and has been approved as an achievable outcome.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Descriptor | Proposed Task | Evidence | Comments | Proposed Timeframe |
| UM.1 (i) | Study Acts |  | Refer to Executive Summary | Complete by June, Submit by December,2015 |
|  |  |  |  |  |
| UM.2 (i) |  |  | Refer to Executive Summary | Submit by June,2015 |
| UM.2 (ii) |  |  | Refer to Executive Summary | Submit by June,2015 |
|  |  |  |  |  |
| UM.3 (i) | Additional Experience required | Future CER | Manage specific projects initially under supervision (scheduled by supervisor) | Complete by October 2015Submit by December,2015 |
| UM.3 (ii) | Additional Experience required | Future CER | Manage specific projects initially under supervision (scheduled by supervisor) | Complete by October 2015Submit by December,2015 |
| UM.3 (iii) | Additional Experience required | Future CER | Manage specific projects initially under supervision (scheduled by supervisor) | Complete by October 2015Submit by December,2015 |
|  |  |  |  |  |

Survey Project Abstracts

CER 1 –

CER 2 –

CER 3 –

CER 4 –

CER 5 –

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Elements / Descriptors** | **Evidence** | **Documents** | **Graduates Comments** | **Assessors Comments** |
| **UM.1 Understand and apply relevant law.** Applicants will need to demonstrate that they are able to: 1. Operate in accordance with government Acts, Regulations or instructions

*The legislation referred to includes but is not limited to the appropriate parts of: Work Health and Safety Act, Mineral Resources Ac, Surveyors Act 2003, Mining and Quarrying Safety and Health Act 1999 and their associated regulations.* |  |  |  |  |
| **﻿UM.2 Work in interdisciplinary teams** *The element requires the understanding of interactions between various departments and may include: Development, Production, Exploration, Technical Services, Support Services, Environmental, Commercial, Maintenance, Management.*Applicants will need to demonstrate that they are able to:1. Explain the roles of other professionals, technicians and trades persons
 |  |  |  |  |
| 1. Explain interactions between various departments and survey requirements within a mining operation
 |  |  |  |  |
| **﻿UM.3 Plan, organise, direct and control tasks, people and other resources** *This element requires the surveyor to identify**and prioritise tasks efficiently and manage the**mine’s survey team.*Applicants will need to demonstrate that they are able to:1. Set work objectives and prioritise activities
 |  |  |  |  |
| 1. Determine work methods and procedures
 |  |  |  |  |
| 1. Estimate times, costs and resources
 |  |  |  |  |
| 1. Compile work schedules and allocating resources
 |  |  |  |  |
| 1. Establish project recording systems for surveying records and design changes
 |  |  |  |  |
| **Elements / Descriptors** | **Evidence** | **Documents** | **Graduates Comments** | **Assessors Comments** |
| **UM.4 Explain standard mining methods***This requires the surveyor to understand mining methodologies and how surveyors interact with these operational and ancillary aspects of mining.*Applicants will need to demonstrate that they are able to:1. Describe different mining methods and their applications
 |  |  |  |  |
| 1. Described methods of mine ventilation
 |  |  |  |  |
| 1. Describe methods of ore haulage
 |  |  |  |  |
| 1. Described requirements of mine monitoring and rehabilitation
 |  |  |  |  |
| 1. Describe hazards associated with underground metalliferous mines and how it influences mine surveying and surveys.
 |  |  |  |  |
| **Elements / Descriptors** | **Evidence** | **Documents** | **Graduates Comments** | **Assessors Comments** |
| **UM.5 Prepare plans suitable for lodgement** *The specific legislation and drafting standards referred to are:**Mining and Quarrying Safety and Health Act and Regs**Guidance Note 19*Applicants will need to demonstrate that they are able to: 1. Prepare plans to meet the required working plans/drawings.
 |  |  |  |  |
| 1. Prepare statutory plans to meet the required standards
 |  |  |  |  |
| **UM.6 Plan, organise, direct and control tasks associated with operational surveys***Surveyors are required to identify the routine operational surveys required to fulfil the surveying duties and operational requirements for the development and extraction of ore.*Applicants will need to demonstrate that they are able to : 1. Describe various methods of surveying and technology used in underground metalliferous mines.
 |  |  |  |  |
| 1. Describe the survey limitations working in underground metalliferous mines.
 |  |  |  |  |
| 1. Compile plans for the use by mining personnel for development and production operations.
 |  |  |  |  |
| 1. Describe the surveys required for the development and extraction of ore from an underground mine.
 |  |  |  |  |
| **Elements / Descriptors** | **Evidence** | **Documents** | **Graduates Comments** | **Assessors Comments** |
| **UM. 7 Perform data searches***This element requires that a surveyor has shown that they have the ability to research numerous facilities to locate and verify historical data and identify its limitations.*Applicants will need to demonstrate that they are able to :1. Perform searches of current and historical data.
 |  |  |  |  |
| 1. Describe locations and availability of data for the purposes of historical searches.
 |  |  |  |  |
| 1. Describe the limitations of the data found
 |  |  |  |  |
| 1. Use relevant endorsements when using this data for current mining operations.
 |  |  |  |  |
| **UM. 8 Establish, measure and adjust extensive mine control networks** *The element requires evidence that the applicant has completed control surveys that involve:** *Networks of an enduring nature*
* *Multiple interconnections between stations*
* *Networks of substantial scale and complexity*

Applicants will need to demonstrate that they are able to : 1. Establish project control networks using terrestrial measurements.
 |  |  |  |  |
| 1. Re-establish and validate existing control networks
 |  |  |  |  |
| 1. Evaluate and adjust measurements by appropriate adjustment methods
 |  |  |  |  |
| 1. Use adequate redundant measurements to validate data
 |  |  |  |  |
| 1. Analyse and critically evaluate the adjustment
 |  |  |  |  |