Mining Technology Certificates

Mining Technician Assistant II Certificate

Required:

MNG	123	Mining Electricity I	4
MNG	125	Mining Electricity Lab	1
ET/ELT	265	Applied Fluid Power OR	(3)
**FPX	100	Fluid Power AND	(3)
**FPX	101	Fluid Power Lab	(2)
		Total Credits:	**8-10**

***Refer to "Course Substitutions Key"*

Mining Technician I Certificate

Required:

		Computer Literacy	0-3
MNG	160	Elements of Underground Mining	3
MNG	161	Elements of Underground Mining Lab	1-3
MNG	150	Mining Laws	3
MNG	286	Roof Control and Ventilation	3
		Total Credits:	**10-15**

Mining Technician II Certificate

Required:

		Computer Literacy	0-3
**MNG	123	Mining Electricity I	4
**MNG	125	Mining Electricity I Lab	1
MNG	150	Mining Laws	3
MNG	286	Roof Control and Ventilation	3
MNG	190	Mine Emergency Technician or	3
KHP	190	First Aid & Emergency Care	(2)
IMT	100	Welding for Maintenance	3
IMT	101	Welding for Maintenance Lab	2
		Total Credits:	**18-22**

***Refer to "Course Substitutions Key"*

Underground Operator Certificate

Required:

MNG	160	Elements of Underground Mining	3
MNG	161	Elements of Underground Mining Lab	1-3
EFM	100	Personal Financial Management OR	3
BA	120	Personal Finance OR	(3)
WPP	200	Workplace Principles	(3)
		Total Credits:	**7-9**

Underground Mechanic/Electrician Certificate

Required:

		Computer Literacy	0-3
		Blueprint Reading course	2-3
**MNG	123	Mining Electricity I	4
**MNG	125	Mining Electricity I Lab	1
IMT	100	Welding for Maintenance	3
IMT	101	Welding for Maintenance Lab	2
**ET/ELT	244	Electrical Machinery and Controls OR	4
IMT	110	Industrial Maintenance Electrical Principles AND	(3)
IMT	111	Industrial Maintenance Electrical Principles Lab	(2)
**ET/ELT	250	Programmable Logic Controllers	4
ET/ELT	265	Applied Fluid Power OR	3
**FPX	100	Fluid Power AND	(3)
**FPX	101	Fluid Power Lab	(2)
**IMT	150	Maintaining Industrial Equipment I	3
**IMT	151	Maintaining Industrial Equipment I Lab	2
		Total Credits:	**28-35**

***Refer to "Course Substitutions Key"*

Underground Supervisor Certificate

Required:

		Computer Literacy	0-3
		Blueprint Reading course	2-3
MNG	150	Mining Laws	3
MNG	274	Mine Safety	3
MNG	190	Mine Emergency Technician OR	3
KHP	190	First Aid & Emergency Care	(2)
BA	160	Introduction to Business	3
MNG	286	Roof Control and Ventilation	3
		Total Credits:	**17-21**

Surface Operator Certificate

Required:

MNG	170	Elements of Surface Mining	2
MNG	171	Elements of Surface Mining Lab	1-3
EFM	100	Personal Financial Management OR	3
BA	120	Personal Finance OR	(3)
WPP	200	Workplace Principles	(3)
HEO	125	Special Problems I OR	3
		Technical Electives	(3)
		Total Credits:	**9-11**

Surface Supervisor Certificate

Required:

		Computer Literacy	0-3
		Blueprint Reading	2-3
MNG	150	Mining Laws	3
MNG	190	Mine Emergency Technician OR	3
KHP	190	First Aid & Emergency Care	(2)
MNG	274	Mine Safety	3
BA	160	Introduction to Business	3
		Total Credits:	**14-18**

Surface Field Mechanic Certificate

Required:

**ET/ELT	122	Mechanical Power Transmission Systems	3
ET/ELT	265	Applied Fluid Power OR	3
**FPX	100	Fluid Power AND	(3)
**FPX	101	Fluid Power Lab OR	(2)
IMT	100	Welding for Maintenance	3
IMT	101	Welding for Maintenance Lab	2
		Total Credits:	**11-13**

***Refer to "Course Substitutions Key"*

Technical Electives*: Any AIT, EET, ET, ENGT, IMT, CIS, NIS, IT, ISM, ENV, SMT, CAD, ICT, MFG or other courses approved by program coordinator.*

Course Substitutions Key:

**ET 122 = AIT 2102 + AIT 2103 + AIT 1002 + AIT 1202
**MNG 123 & **MNG 125 = AIT 1001 + AIT 1002 + AIT 1101
**ET 244 = AIT 1002 + AIT 1401, followed next term by AIT 1501. Only after completion of AIT 1401, student eligible to enroll in AIT 1501.
**ET 250/ELT 250 = EET 276 + EET 277
**FPX 100 & **FPX 101 = AIT 1003 + AIT 1102 + AIT 1403 + AIT 1503
**IMT 150 & **IMT 151 = AIT 2101 + AIT 2102 + AIT 2103 + AIT 1203