Yavapai COLLEGE
life explored

2012 - 2013
Catalog Year

Industrial Plant Technician Certificate

Program Description

The Industrial Plant Technician certificate is designed to prepare students for an entry-level career in plant machinery installation, maintenance, and fabrication.

Program Contacts

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Program Outcomes

Upon successful completion of the Industrial Plant Technician Certificate program, the learner will be able to:

1. Troubleshoot, replace, and repair hydraulic and pneumatic system components. (IPT 110, IPT 120, IPT 160, IPT 295, MET 160)
2. Fabricate and repair industrial machinery components. (IPT 260, IPT 295, WLD 112, WLD 113, WLD 250)
3. Utilize machine shop equipment. (AGS 101 or CSA 126, IPT 260, IPT 261, IPT 295, MET 116, MET 150)
4. Troubleshoot and repair conveyance systems. (IPT 260)
5. Troubleshoot and repair bulk material handlers. (IPT 140, IPT 260, IPT 261)
6. Repair and replace valves. (IPT 130)

Program Requirements

A minimum of 35 credit hours is required to complete the Industrial Plant Technician Certificate.

	Course	Course Title	Credit Hours
	AGS101	Microcomputers in Agriculture	3
OR	CSA126	Microsoft Office	3
	IPT110	Industrial Shop Practices	3
	IPT120	Industrial Pump Maint/Repair	3
	IPT130	Industrial Valve Maint/Repair	3
	IPT140	Bulk Materials Handling	3
	IPT160	Machinery Maint/Troubleshoot	3
	MET150	Surface Mine Safety Training	1
	MET160	Basic Machine Hydr& Pneumatics	2
	WLD112	Basic Welding I	2
	WLD113	Basic Welding II	2
	WLD250	Welded Metal Fabrication	4
Additional Requirements - Select Option A or B			
Option A (Mining Students Only)			
	IPT295	Apprentice: Industrial Plant	3
Option B (All Others - Select 6 Credits from the Following Courses)			
	AUT100	Auto/Diesel Preventative Maint	2
	AUT151	Auto Engine Repair	2
	BSA110	Personal Finance	3
	BSA220	Principles of Management	3
	CNC101	CNC Machine Operator	2
	CNC102	CNC Machine Set Up	2
	CNC201	Comp Aided Program CNC Mach	3
	WLD145	Arc II	4
	WLD156	Blueprint Reading	2
	WLD200	Tig I	4
	WLD210	Gas Metal Arc Welding Mig	3