Utah System of Higher Education
The Gateway, Salt Lake City, UT 84101
801-646-4784

Automation Technology

Technical Certificate (Catalog Year: 2028)

Foundational Courses (21 Credits / 630 Clock-Hours)

		Credits	Clock-Hours
TEAM 1010	Essential Skills and Safety	3	90
TEAM 1020	Pneumatics	2	60
TEAM 1030	Hydraulics	2	60
TEAM 1040	Industrial Mechanics	3	90
TEAM 1050	Electrical Systems	2	60
TEAM 1060	Motor Controls	3	90
TEAM 1070	Programmable Logic Controllers	4	120
TEAM 1080	Applied System Diagnostics	2	60

Supplemental Courses Varies by Institution

Bridgerland (9 Credits / 270 Clock-Hours)

		Credits	Clock-Hours
TEAM 1012	Digital and Career Essentials	1	30
TEAM 1100	Electric Motors and Drives	1	30
TEAM 1110	Introduction to Industrial Robotics	2	60
TEAM 1120	3D Modeling	2	60
TEAM 1202	HVAC Refrigeration	2	60
TEAM 1300	Building Control Panels	3	90
TEAM 1504	Instrumentation Process Control	1	30
TEAM 1915	Automation Technology Externship	3	135
TEAM 2810	Project Based Learning in Automation	1	30
TEET 1040	Electronics Assembly and Soldering	1	30
TEET 1061	DC Electronics I	2	60
TEET 1071	AC Electronics I	2	60
TEET 1100	Microcontrollers I	2	60
TEET 1105	Microcontrollers II	2	60
TEWT 1005	Welding Overview	3	90

Davis (9 Credits / 270 Clock-Hours)

		Credits	Clock-Hours
TEAM 1015	Electronic Fundamentals for Industrial Automation	4	120
TEAM 1105	Electric Motors and Drives	3	90
TEAM 1110	Introduction to Industrial Robotics	2	60
TEAM 1170	UAV Drone Technology	3	90
TEAM 1300	Building Control Panels	3	90
TEAM 1500	Instrumentation Process Control	3	90
TEAM 1550	Process Technology Equipment and System Operators	3	90

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TEAM 1600	Microcontroller and Microprocessor Programming	2	60
TEAM 1620	Electronics Assembly and Soldering	2	60
TEAM 1800	Renewable Energy	2	60
TEAM 1810	Lean Manufacturing (Six Sigma)	1	30
TEAM 1820	Semiconductor Devices	4	120
TEAM 1830	Aerospace Technician	2	60
TEAM 1910	Automated Externship	2	90
TEDR 1221	Production Drafting I	1	30
TEWT 1008	Welding for Manufacturing	2	60
WKSK 1500	Job Seeking Skills	1	30
Mountainland (9 Credits / 270 Clock-Hours)		Credits	Clock-Hours
TEAM 1112	Rotating Machines	2	60
TEAM 1115	Robotics I	1	30
TEAM 1310	Industrial Panel Wiring	2	60
TEAM 2000	Programmable Logic Controllers II	3	90
TEAM 2031	PLC Troubleshooting	1	30
Ogden-Weber (9 Credits / 270 Clock-Hours)		Credits	Clock-Hours
TEAM 1138	Vision Systems	1	30
TEAM 1140	Industrial Robotics	3	90
TEAM 1300	Building Control Panels	3	90
TEAM 2146	Electrical Fluid Power Control Systems	2	60
Salt Lake (9 Credits / 270 Clock-Hours)		Credits	Clock-Hours
TEAM 1520	Process Control Level/Flow	4	120
TEAM 1580	Process Capstone Project	2	60
TEAM 1610	Electric Motor Control Systems	4	120
TEAM 1680	Motor Capstone Project	2	60
TEAM 2010	Programmable Logic Controllers II	4	120
TEAM 2025	HMI Programming	2	60
TEAM 2040	PLC Troubleshooting	2	60
TEAM 2080	PLC Capstone Project	1	30
TEAM 2200	Troubleshooting Automated Systems	3	90
Snow (9 Credits / 270 Clock-Hours)		Credits	Clock-Hours
TEAM 2045	Programmable Logic Controllers Troubleshooting	2	60
TEAM 2100	Industrial Mechanics II	2	60
TEAM 2110	Laser Shaft Alignment	2	60
TEAM 2120	Vibration Analysis	2	60
TEAM 2130	Industrial Rigging	2	60
TEAM 2140	Industrial Hydraulics Troubleshooting	3	90

TEAM 2150	Industrial Pumps	3	90
Southwest (9 Credits / 270 Clock-Hours)		Credits	Clock-Hours
TEAM 1510	Process Control Components and Systems	2	60
TEAM 1640	Electrical Systems II	1	30
TEAM 2005	Programmable Logic Controllers II	3	90
TEAM 2210	Fabrication and Repair	3	90
Tooele (9 Credits / 270 Clock-Hours)		Credits	Clock-Hours
TEAM 1148	Industrial Robotics	3	90
TEAM 1261	Manual Machining I	2	60
TEAM 1271	Manual Machining II	3	90
TEAM 1280	Welding for Automation Technology I	2	60
TEAM 1380	Welding for Automation Technology II	2	60
TEAM 1480	Welding for Automation Technology III	2	60
USU - Eastern (9 Credits / 9 Clock-Hours)		Credits	Clock-Hours
TEAM 1100	Electric Motors and Drives	1	30
TEAM 1110	Introduction to Industrial Robotics	2	60
TEAM 1300	Building Control Panels	3	90
TEAM 1500	Instrumentation Process Control	3	90
TEAM 2000	Programmable Logic Controllers II	3	90