

LEVEL I CERTIFICATE, PRACTICAL AI AND INTELLIGENT AUTOMATION

Additional information: Reference the SHSU Polytechnic College (<https://sam.edu/>) page for additional information.

Program Description

Jumpstart your career with in-demand AI and automation skills. This program is crafted for those looking to quickly gain the practical knowledge needed for high-impact roles such as AI Technician or Automation Specialist.

As AI and automation become essential across industries, this certificate equips you with versatile, future-focused skills that open doors in the fast-evolving tech landscape. Stand out in today’s job market as a forward-thinking professional ready to shape the future.

Statewide Industry Highlights

- Current Workforce: 88,072 employed
 - Average Salary: \$56,400
 - Open Positions: 9,148
- Data provided by Lightcast, 2024.

Code	Title	Hours
Level I Certificate, Practical AI and Intelligent Automation		
ITAI 1370:	AI Fundamentals & Platforms	3
ITAI 1371:	AI Ethics and Society	3
ITAI 1372:	AI Industries	3
ITAI 1373:	Data Analysis & Visualization	3
ITAI 1374:	Automating Workflows	3
ITAI 1375:	AI-Powered Data Insights	3
ITAI 2370:	AI for Customer Service	3
ITAI 2371:	Natural Language Processing	3
ITAI 2372:	Image and Text Analysis	3
ITAI 2373:	Predictive Analytics	3
ITAI 2374:	Automating Customer Insights	3
ITAI 2375:	Capstone Project	3
Total Hours		36

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Level I Certificate, Practical AI and Intelligent Automation

First Year

Fall	Hours	Spring	Hours
ITAI 1370: AI Fundamentals & Platforms		3 ITAI 1374: Automating Workflows	3
ITAI 1371: AI Ethics and Society		3 ITAI 1375: AI Powered Data Insights	3
ITAI 1372: AI in Industry		3 ITAI 2370: AI for Customer Service	3
ITAI 1373: Data Analysis & Visualization		3 ITAI 2371: Natural Language Processing	3
		12	12

Second Year

Fall	Hours
ITAI 2372: Image and Text Analysis	3
ITAI 2373: Predictive Analytics	3
ITAI 2374: Automating Customer Insights	3
ITAI 2375: Capstone Project	3
12	

Total Hours: 36

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Level I Certificate Program in Practical AI and Intelligent Automation is designed to provide graduates with the following marketable skills:

- Machine Learning
- Artificial Intelligence
- Computer Science
- Software Development
- Data Analysis
- Microsoft Azure
- Automation
- Business Intelligence