EQUITY TASK FORCE DATA ANALYSIS WORK RESEARCH SUMMARY





DATE: October 6, 2021

Data Analysis Review Agenda

Objective:

- Review the analysis completed by the Data Workgroup and discuss which elements of the analysis are most insightful/critical to the Program Workgroup
- Data in this presentation includes participants that exited the adult program between January 1, 2018 and March 31, 2020

Key insights/metrics

- Who does the WIOA Title 1 Adult Program serve? (demographics)
- How is the workforce system helping customers overcome barriers (equity)
 - What services to customers access?
 - What outcomes do customers achieve?

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Analytical Technique: Disproportionate Impact Analysis

- <u>Disproportionate Impact Analysis</u> examines how certain groups of people have been disproportionately impacted based on characteristics such as race, gender, disability, and socioeconomic status
- This analysis uses the 80% Rule Index (Sosa, 2017).
 - Step 1: identify the subgroup with the highest rate of success, referred to as the "reference" group. This group is highlighted in green in the data tables
 - Step 2: divide the success rate of each subgroup by that of the reference group: 80% Index = Cohort Group Rate/ Reference Group Rate
 - Step 3: Disproportionate Impact (DI) is evident if the performance outcome rate of any subgroup is less than 80% of the group with the highest outcome rate. These groups are highlighted in red in the data tables

Title I Adult Participants Demographics

T	otal Participants Served		Title I Adult	
		Total Participants Served	Percent of total Participants	Percent of Unemployed Persons in Poverty
	Total Statewide	8,534		
Sex	Female	5,030	58.9%	48.8%
S	Male	3,487	40.9%	51.2%
>	Asian	312	3.7%	1.2%
icit	Black / African American	4,179	49.0%	40.2%
thn	Hispanic / Latino	1,282	15.0%	12.4%
e/Et	White	3,239	38.0%	53.1%
Race/Ethnicity	American Indian	55	0.6%	0.1%
~	Other Race	102	1.2%	5.3%

- Female participants in Title 1 Adult programs comprise nearly 59% of total participants, compared with about 49% of Unemployed Persons in Poverty
- Black participants make up nearly 50% of total participants, compared with about 40% of Unemployed Persons in Poverty

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Title I Adult Participants Pre-enrollment education levels

	Fen	nale		Male									
White	Black	ack Hispanic Asian White Black Hispanic Asia											
	ADULT Educational Attainment at Enrollment												

Participants	1,788	2,473	574	206	1,303	1,792	602	160
HS Equiv or less	48.7%	65.2%	65.9%	55.8%	65.0%	73.8%	76.4%	50.6%
Assoc/Some College	42.6%	25.5%	28.2%	23.8%	20.8%	18.8%	17.8%	16.9%
Bachelors or higher	8.7%	9.3%	5.9%	20.4%	14.2%	7.4%	5.8%	32.5%

- Black and Hispanic participants have lower education levels at entry than other groups
- Females have higher attainment rates than males
- Asians are more likely to have a bachelors degree or higher

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Title I Adult Participants Pre-enrollment earnings levels

			Fen			Male										
	\	White	Black		Hispanic		,	Asian	White		Black		Hispanic		,	Asian
		ADULT Average Quarterly V						rly Wag	y Wage 3 Quarters Prior to Enrollment							
HS Equiv or less	\$	2,830	\$	3,133	\$	3,294	\$	2,577	\$	3,033	\$	2,531	\$	3,538	\$	3,355
Assoc/Some College	\$	3,131	\$	3,413	\$	3,263	\$	2,377	\$	3,241	\$	2,728	\$	3,794	\$	2,568
Bach or higher	\$	3,738	\$	4,095	\$	4,300	\$	2,463	\$	3,960	\$	3,982	\$	2,867	\$	2,300
All Exiters	\$	3,037	\$	3,294	\$	3,345	\$	2,506	\$	3,208	\$	2,676	\$	3,544	\$	2,879
Low Income		85.0%		90.6%		80.6%		57.8%		74.0%		81.7%		69.7%		65.1%

- Hispanics tend to have higher wages 3 quarters prior to enrollment
- For most race/ethnicity groups, males tend to have higher pre-enrollment earnings
- However, for Black participants females had higher pre-enrollment earnings

IWIB 7

Title | Adult Participants Services Accessed

- White females are significantly more likely to receive all types of services relative to other groups.
- · Asian females are significantly less likely to enter training
- · Males are generally more likely to successfully complete training

		Fem	nale		Male							
	White	Black	Hispanic	Asian	White	Black	Hispanic	Asian				
		ADULT Percentage of Participants										
Self Services	43.2%	33.0%	27.9%	23.4%	33.2%	27.9%	21.9%	24.0%				
Staff Services	64.5%	45.3%	47.1%	47.7%	54.0%	44.2%	46.2%	52.0%				
Rec'd Training	85.0%	70.1%	74.8%	51.4%	79.8%	74.1%	80.1%	68.6%				
Training Completed	77.7%	76.7%	77.1%	81.3%	81.1%	79.3%	82.8%	94.2%				

Spotlight on Participants with a H.S. Degree or Less

		Fem	iale		Male							
	White	Black	Hispanic	Asian	White	Black	Hispanic	Asian				
		ADULT Percentage of Participants										
Self Services	38.2%	28.1%	25.0%	21.5%	31.7%	26.6%	20.8%	16.9%				
Staff Services	57.0%	43.6%	44.1%	52.1%	53.3%	43.9%	44.8%	52.8%				
Rec'd Training	83.1%	68.9%	76.0%	49.6%	83.3%	75.3%	81.4%	58.4%				
Training Completed	74.7%	76.0%	75.2%	80.0%	79.1%	78.2%	82.1%	94.2%				

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Title | Adult Participants Services Accessed

				Fen	nale	9						М	ale			
	'	White Black				Hispanic Asian		,	White Bla		Black	Hispanio			Asian	
		ADULT Average Quarter					uarterly	Wage 2 Quarters After Exit								
All Adult	\$	7,352	\$	6,367	\$	6,540	\$	6,687	\$	6,842	\$	6,232	\$	7,066	\$	7,137
Self Services	\$	7,712	\$	6,767	\$	7,317	\$	6,129	\$	7,123	\$	5,603	\$	6,941	\$	7,283
Staff Services	\$	8,001	\$	6,608	\$	7,469	\$	7,319	\$	6,953	\$	6,097	\$	7,220	\$	7,917
Rec'd Training	\$	7,895	\$	7,043	\$	7,090	\$	7,512	\$	7,022	\$	6,705	\$	7,095	\$	7,608
Tng Completed	\$	8,939	\$	7,961	\$	7,976	\$	8,332	\$	7,658	\$	7,398	\$	7,426	\$	7,737
Tng Not Compl	\$	4,264	\$	4,022	\$	4,114	\$	3,961	\$	4,301	\$	4,047	\$	5,500		
No Training	\$	4,272	\$	4,779	\$	4,910	\$	5,814	\$	6,131	\$	4,876	\$	6,952	\$	6,109

- Participants that received staff assisted career or training services tended to have higher post-exit earnings
- Those that received training had higher post-exit earnings than those that did not
- Training completion was strongly associated with higher earnings
- The higher earnings for White females appear to be driven by higher education levels at entry

Spotlight on Participants with a H.S. Degree or Less

			Fer	nale	9						М	ale			
	White	Black	H	Hispanic		Asian		White		Black		Hispanic		Asian	
			ADULT Average Quarterl						y Wage 2 Quarters After Exit						
All Adult	\$ 5,999	\$	5,738	\$	5,875	\$	6,636	\$	6,393	\$	6,143	\$	6,888	\$	6,023
Self Services	\$ 6,238	\$	5,934	\$	6,548	\$	5,758	\$	6,894	\$	5,485	\$	6,178	\$	5,226
Staff Services	\$ 6,241	\$	5,892	\$	6,431	\$	6,911	\$	6,661	\$	5,827	\$	7,022	\$	7,307
Rec'd Training	\$ 6,450	\$	6,369	\$	6,310	\$	7,392	\$	6,582	\$	6,527	\$	7,036	\$	6,443
Tng Completed	\$ 7,378	\$	7,180	\$	7,010	\$	8,179	\$	7,214	\$	7,287	\$	7,520	\$	6,499
Tng Not Compl	\$ 3,705	\$	3,798	\$	4,192	\$	4,245	\$	4,195	\$	3,795	\$	4,820		
No Training	\$ 3,781	\$	4,338	\$	4,499	\$	5,892	\$	5,448	\$	4,972	\$	6,240	\$	5,432

Title I Adult Participants Credentials Earned

- Asians that entered training were more likely to earn a credential
- White females we significantly more likely to earn an AA/AS or BA/BS degree

Males were less likely than females to earn an AA/AS or BA/BS degree but more likely to earn an

Occupational License or Certificate

Earned Any Credential
AA or AS Diploma/Degree
BA or BS Diploma/Degree
Occupational Licensure
Occupational Certificate
Occupational Certification
Other Recognized Credentia

	Fem	nale		Male								
White	Black	Hispanic	Asian	White	Black	Hispanic	Asian					
		ADULT T	ype of Rec	ognized Cr	edential							
71.9%	67.8%	66.3%	73.7%	69.1%	69.4%	69.5%	82.6%					
15.1%	4.2%	7.8%	3.9%	5.0%	1.0%	1.1%	1.2%					
5.7%	2.7%	1.3%	3.9%	1.2%	1.7%	0.3%	2.3%					
15.6%	14.4%	11.9%	17.1%	22.2%	19.2%	19.4%	10.5%					
32.3%	40.4%	42.2%	36.8%	37.2%	42.7%	45.2%	58.1%					
2.3%	4.5%	1.6%	10.5%	2.7%	3.8%	2.8%	9.3%					
0.9%	1.7%	1.6%	1.3%	0.8%	1.0%	0.8%	1.2%					

Spotlight on Participants with a H.S. Degree or Less

Earned Any Credential
AA or AS Diploma/Degree
BA or BS Diploma/Degree
Occupational Licensure
Occupational Certificate
Occupational Certification
Other Recognized Credentia

	Fen	nale		Male								
White	Black	Hispanic	Asian	White	Black	Hispanic	Asian					
	ADULT Type of Recognized Credential											
68.2%	66.5%	64.2%	69.8%	70.0%	68.6%	70.6%	91.9%					
10.3%	3.0%	4.2%	4.7%	3.2%	0.7%	0.4%	0.0%					
0.4%	0.5%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%					
13.8%	14.9%	10.8%	7.0%	23.2%	19.3%	19.1%	5.4%					
39.2%	42.1%	46.2%	41.9%	39.9%	44.3%	47.9%	70.3%					
3.1%	4.4%	1.5%	14.0%	2.6%	3.0%	2.1%	13.5%					
1.3%	1.6%	1.5%	2.3%	1.0%	1.2%	1.1%	2.7%					

IWIB 10 (

Title I Adult Participants Credentials Earned

- Black participants that earned an AA/AS or BA/BS degree generally earned less than other groups
- Degree recipients generally had higher post-program earnings than license/certificate recipients

No recognized credential AA or AS Diploma/Degree BA or BS Diploma/Degree Occupational Licensure Occupational Certificate Occupational Certification

	Male												
White	Black	Hi	ispanic	/	Asian	١	White		Black	Hi	spanic	P	Asian
ADULT Average Quarterly Wage 2 Quarters After Exit													
\$ 4,39	5 \$ 4,75	4 \$	5,089	\$	5,536	\$	5,936	\$	4,854	\$	6,408	\$	6,625
\$ 11,536	\$ 10,107	\$	11,943			\$	10,172	\$	7,072				
\$ 13,082	\$ 10,743	3				\$	11,247	\$	8,684				
\$ 9,86	5 \$ 9,57	5 \$	9,502	\$	12,958	\$	8,522	\$	8,691	\$	7,792	\$	7,180
\$ 7,208	3 \$ 7,39	1 \$	6,660	\$	7,585	\$	6,764	\$	7,084	\$	7,669	\$	8,085
\$ 6,394	4 \$ 6,57	6				\$	6,640	\$	6,106	\$	6,155		

Spotlight on Participants with a H.S. Degree or Less

No recognized credential AA or AS Diploma/Degree BA or BS Diploma/Degree Occupational Licensure Occupational Certificate Occupational Certification

		Fen	e		Male										
V	Vhite	E	Black	Н	ispanic	A	Asian	٧	Vhite		Black	Hi	spanic	P	Asian
	ADULT Average Quarterly Wage 2 Quarters After Exit														
\$	3,933	\$	4,313	\$	4,842	\$	5,528	\$	5,378	\$	4,777	\$	5,869	\$	5,259
\$	9,893	\$	8,877	\$	10,533			\$	9,212						
\$	7,867	\$	8,544	\$	8,784			\$	8,326	\$	9,210	\$	7,743		
\$	6,848	\$	6,914	\$	6,115	\$	6,977	\$	6,456	\$	6,776	\$	7,717	\$	6,913
\$	5,382	\$	5,879					\$	6,292	\$	6,135	\$	7,136		1

Title | Adult Participants - HS/less Training Occupations

- About 65% of females enter training in Healthcare Practitioner or Healthcare Support.
- About 76% of males enter training in Transportation or Production

Received Training, total
Management
Computer and Mathematical
Healthcare Practitioners and Technical
Healthcare Support
Office and Administrative Support
Installation, Maintenance, and Repair
Production
Transportation and Material Moving
All other

		Fem	nale			Ma	ile		Female	Male	Average
	White	Black	Hispanic	Asian	White	Black	Hispanic	Asian	All Partio	cipants	Post-exit
				Al	DULT Percent	Receiving Tra	aining				Wage
Ī	40.5%	44.8%	48.8%	27.5%	54.0%	55.6%	62.3%	29.7%	72.8%	77.9%	\$ 6,532
	1.4%	6.7%	2.9%	38.3%	1.0%	2.6%	1.0%	23.1%	5.5%	2.5%	\$ 5,722
	1.9%	2.3%	2.6%	1.7%	5.6%	3.2%	3.7%	0.0%	2.2%	4.1%	\$ 5,864
	41.3%	41.1%	23.9%	35.0%	3.3%	2.2%	2.9%	1.9%	39.9%	2.8%	\$ 8,525
	29.1%	24.5%	33.5%	5.0%	1.8%	0.7%	1.0%	0.0%	26.2%	1.2%	\$ 4,879
	4.1%	3.1%	6.8%	6.7%	1.6%	2.9%	2.0%	0.0%	3.7%	2.0%	\$ 5,032
	1.0%	0.2%	0.6%	0.0%	12.1%	3.6%	8.8%	7.7%	0.5%	7.4%	\$ 6,017
	7.9%	3.6%	11.9%	8.3%	19.6%	12.6%	22.6%	34.6%	5.5%	16.4%	\$ 5,978
	8.3%	11.7%	12.6%	1.7%	49.5%	69.3%	55.8%	26.9%	10.5%	60.0%	\$ 6,690
	4.9%	6.7%	5.2%	3.3%	5.5%	2.9%	2.2%	5.8%	6.0%	3.7%	

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Title | Adult Participants - HS/less Training Occupations Outcomes

- Those that enter training in Healthcare Practitioner occupations (primarily females) tend to have higher wages than other occupations
- Males that enter training in Transportation have earnings that are similar to the overall average for males

		Fem	nale			Ma		Female	Male	
	White	Black	Hispanic	Asian	White	Black	Hispanic	Asian	All Partio	cipants
			AD	ULT Avera	ge Quarterl	ly Wage 2 (Quarters Af	ter Exit		
Received Training, total	6,450	6,369	6,310	7,392	6,582	6,527	7,036	6,443	6,484	6,579
Management	3,679	5,654	7,048	5,315	6,981	4,885	10,073	5,571	5,596	6,007
Computer and Mathematical	5,652	6,925	5,649	0	5,482	5,855	8,029	#DIV/0!	6,342	5,598
Healthcare Practitioners and Technical	8,352	8,455	7,902	11,867	5,990	10,405	8,383	1,923	8,541	8,300
Healthcare Support	4,941	4,622	5,673	4,913	5,282	4,910	3,516		4,864	5,153
Office and Administrative Support	4,879	4,498	5,057	4,806	4,793	4,782	5,934		4,976	4,898
Installation, Maintenance, and Repair	5,179	5,612	2,670	#DIV/0!	6,600	4,821	7,506	5,863	4,969_	6,089
Production	5,637	5,856	6,930	6,784	6,419	5,329	6,867	9,549	5,810	6,046
Transportation and Material Moving	6,088	4,793	6,338	33	6,855	6,983	6,868	3,879	5,444	6,914

IWIB 13

Title | Adult Participants - HS/less Training Occupations Outcomes

- Those trained in Healthcare occupations are more likely to have wages (wages > \$0)
- About one-quarter of those trained in Computer/Mathematical and Transportation have no wages
- When only those that are employed (have wages >\$0), the disparity between Healthcare Practitioner and Transportation earnings narrows considerably

	Received Training Average				
		20	Pos	st-exit Wa	ge
		All	Wit	th Wages	% No Wage
Received Training, total	\$	6,532	\$	8,039	18.8%
Management	\$	5,722	\$	7,351	22.2%
Computer and Mathematical	\$	5,864	\$	7,651	23.4%
Healthcare Practitioners and Technical	\$	8,525	\$	9,408	9.4%
Healthcare Support	\$	4,879	\$	5,533	11.8%
Office and Administrative Support	\$	5,032	\$	6,265	19.7%
Installation, Maintenance, and Repair	\$	6,017	\$	7,456	19.3%
Production	\$	5,978	\$	7,268	17.7%
Transportation and Material Moving	\$	6,690	\$	9,110	26.6%

IWIB 14 (

Title I Female Adult Participants - HS/less

Training Occupations Outcomes – Healthcare

- About 65% of females enter training in Healthcare Practitioner or Healthcare Support.
- About 25% of ALL females enter training for Registered Nursing or Licensed Practical Nursing
- More than 25% of ALL female participants enter training in Healthcare Support (primarily Nursing or Medical Assistants), in which exiters earn about half the average wage of Registered Nurse/LPN

Registered Nurses Licensed Practical and Vocational Nurses All Other Healthcare Practitioner Healthcare Support

Received Training, total
Registered Nurses
Licensed Practical and Vocational Nurses
All Other Healthcare Practitioner
Healthcare Support

	Female										
	White	Black	Hispanic	Asian							
ADULT Percent Receiving Training											
	15.6%	5.3%	4.2%	11.7%							
	11.3%	20.2%	4.8%	18.3%							
	12.7%	15.3%	14.2%	5.0%							
	29.1%	24.5%	33.5%	5.0%							

	Female										
,	White	Black			Hispanic	Asian					
ADULT Average Quarterly Wage 2 Quarters After Exit											
\$	6,450	\$	6,369	\$	6,310	\$	7,392				
\$	9,148	\$	9,441	\$	12,575						
\$	9,116	\$	10,837	\$	9,264						
\$	6,975	\$	5,343	\$	6,880	\$	2,028				
\$	4,941	\$	4,622	\$	5,673	\$	4,913				

IWIB 15

Title | Male Adult Participants – HS/less Training Occupations Outcomes – Production and Transportation

- About 76% of males enter training in Transportation or Production
- · Black males are more likely to enter Truck Driver training
- For the most popular Production occupation (Computer-Controlled Machine Tool Operators), Black males earn significantly less than other groups

Asian males are much more likely to enter training in CNC Machine Tool Programmers, which have higher earnings outcomes than most other productions occupations

Those other productions occupations	White	Black	Hispanic	Asian			
	ADULT Percent Receiving Training						
Production	19.6%	12.6%	22.6%	34.6%			
Team Assemblers	1.0%	2.1%	2.2%	1.9%			
Computer-Controlled Machine Tool Operators	6.9%	4.4%	10.6%	11.5%			
CNC Machine Tool Programmers	1.4%	0.7%	2.2%	17.3%			
Machinists	1.6%	0.3%	0.5%	0.0%			
Welders, Cutters, Solderers, and Brazers	3.6%	1.3%	1.2%	0.0%			
Welding Machine Operators	2.0%	0.9%	1.0%	1.9%			
All other Production	3.1%	2.8%	4.9%	1.9%			
Transportation and Material Moving	49.5%	69.3%	55.8%	26.9%			
Heavy and Tractor-Trailer Truck Drivers	43.3%	62.0%	49.6%	26.9%			

		Male					
	White	Black	Hispanic	Asian			
	age Quarterly \	ge Quarterly Wage 2 Quarters After Exit					
Received Training, total	6,582	6,527	7,036	6,443			
Production	6,419	5,329	6,867	9,549			
Team Assemblers		8,165	8,116				
Computer-Controlled Machine Tool Operators	6,330	4,055	6,131				
CNC Machine Tool Programmers	7,129	6,416		7,827			
Machinists	4,365						
Welders, Cutters, Solderers, and Brazers	5,532	4,932					
Welding Machine Operators	5,941	3,589					
All other Production	8,731	5,358	8,416				
Transportation and Material Moving	6,855	6,983	6,868	3,879			
Heavy and Tractor-Trailer Truck Drivers	7,089	7,280	7,137	3,879			

Title | Adult Participants

Takeaways

Participant characteristics prior to program enrollment

- Educational attainment differed among race/ethnicity groups
 - Asian participants were more likely to have a bachelors degree or higher
 - Black and Hispanic participants were more likely to have attainment of HS or less

Services accessed

- White participants (especially white females) tended to be more likely to access career and training services
 - Males of all race/ethnicity group were slightly more likely to complete training

Post-exit earnings

- Training was associated with higher earnings for all participant groups
 - But those that entered training but did not complete had lower post-exit incomes than those that did not enter training
- Training occupation matters: White females had higher earnings largely because they chose to train in higher-paying healthcare occupations
 - Nearly two-thirds of Black males chose Truck Driving, which resulted in lower wages and a higher likelihood of having no wages

IWIB 17 (