* Software Construction: - referes to the detailed Creation
of working 80Ftware through a Compination of Coding
Venification, unit testing, integration testing, debugging
(KAS) Knowledge Area
Esoftware Require ments, software Construction,
Software Testing, Software engineering housement.
KA linked to all other KAS , but it is nost
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[Construction (Sattware (Testing placing > > * design
life cycle process que de sisme
Construction prior to design is,
Tobsign work is performed during The
Construction activity
Testing KA
Software engineers Test, integration test their
Test work

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Information Required For processes such as
Maintaneme, Support, Saffey
software Gufi guration Management
Software Construction produces The highest number of
(Configuration I tems) that need to be honogened in
asoft wane project (Source Files, documentation, Test
Carse).
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1- operating System. Jews Bull an Woods 2 2- physical Machine- Jews 7: 15:140 AP
3- Pile > (Guliguration File) Howappication
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The sale of the sa
Software Quality Important in all the KAS,
[Coupler foundations KA] (algorithms, Coding practices)
Configuration of Config
design > Gustruction of software products)
project Hausigement
Howareword of Constricion Com prosent
Gusiderable challenges]-
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ONJECT. * BREAKDOWN OF TOPICS FOR SOFTWARE Construction? * Software Construction Foundmentals 1- Hinwiling Complexity 2- anticipating change design as Well as 3. Constructing For Veni Fication. Construction 4- Reuse-5. Standards in construction. 1- minituzing Complexity: - : & is lost de ci in a la visione 1- evention of Code is simple and readable rather than clever. 2. Making use of Standards [Require ment validation, analysis, process, specification. 3- Modular Design[Construction Design] 4- num evous other specific Tequiques [coding] · 5 - Construction - Focused Quality. [stoot] gourse change [code] Host software dange overtime 1- chames environmed Build (extensible 30Ftwans) ~ Software engineers which enhance software product without distrupting

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under lying structure.

3-Construction For Venification	≥U ;-
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Software as well as te	ster, user [ade view , mit
	code to automated testing.
the to make the	I among other].
4-Reuse: - + using different	visting of solving differen
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	Create reusable software.
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external	internal Standard J4	
use external standard	For 1- minizing Complexity	÷
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1- Construction tool	3- Constructing for new fication.	97
2. technical interace.	4- adivities.	+
3. inderaction between	en luse For specific Projeds	**
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Mix (design- Gde-test)	Construction our activity	
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	Le pris adivities su pres	-
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2- Gustrudion planning
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example: - (incremental integration)
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3- Gustruction your agreement 2-
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Ode Reuse > Code destroyed, ade Guple xity, ade
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