# SCRUM ONLINE TRAINING (DAY 2)

Jakarta, April 1st 2020









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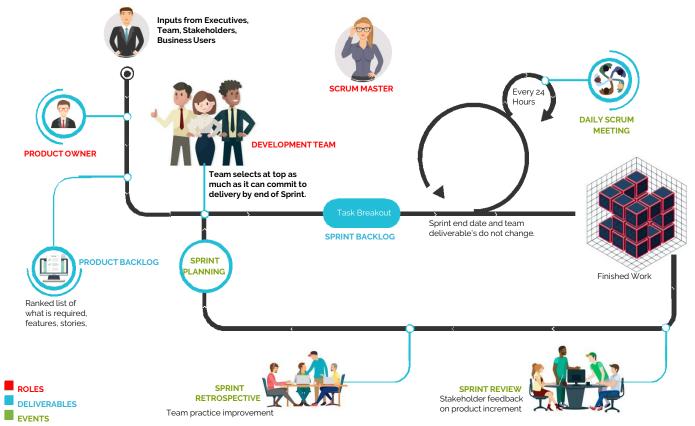
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# REFRESH YOUR MEMORY



#### AGILE LIFECYCLE USING SCRUM



Sprint no more than 4 weeks



Put an X under the role who is responsible for each task

Task	Scrum Master	Product Owner	Team
Estimates the size of items on the Product Backlog			
Participates in Sprint Planning			
Updates the Release Burnup chart			
Ensures that the team follows Scrum practices			
Updates the Sprint Backlog when tasks are done			
Ensures impediments are removed			
Manages the budget and return on investment of the product			
Assigns tasks to team members			
Accepts the delivery of the sprint			
Must attend the Daily Scrum			
Communicates status of the release to stakeholders			
Updates the Sprint Burndown chart			
Educates the organisation about Scrum			
Decides how much will be delivered in a sprint			
Ensures each story meets the Definition of Done			

Task	Scrum Master	Product Owner	Team
Estimates the size of items on the Product Backlog			х
Participates in Sprint Planning	×	X	×
Updates the Release Burnup chart		Х	
Ensures that the team follows Scrum practices	×		
Updates the Sprint Backlog when tasks are done			х
Ensures impediments are removed	Х		
Manages the budget and return on investment of the product		Х	
Assigns tasks to team members			×
Accepts the delivery of the sprint		×	
Must attend the Daily Scrum			×
Communicates status of the release to stakeholders		×	
Updates the Sprint Burndown chart			×
Educates the organisation about Scrum	X		
Decides how much will be delivered in a sprint			×
Ensures each story meets the Definition of Done	×		

DESIGN THINKING LEAN STARTUP AGILE "PRACTICES"

### User persona

Sebuah contoh tipe orang yang akan berinteraksi dengan fitur atau product tersebut. Idenya adalah bahwa jika Anda ingin merancang perangkat lunak yang efektif, maka perlu dirancang untuk orang tertentu.

Name and Picture	Characteristics	Need	
What does the persona look like? What is the persona's name?	What are the persona's relevant characteristics?  For instance, demographics, job, and lifestyle information.	Why would the person want to buy or use the product?	
W	'ho?	why?	

#### **ROMAN'S PERSONA TEMPLATE**







#### DETAILS



#### **GOAL**

What does the persona look like? What is its name? Choose a realistic and believable picture and name.

What are the persona's relevant characteristics and behaviours? For instance, demographics, such as age, gender, occupation, and income; psychographics, including lifestyle, social class, and personality; and behavioural attributes like usage patterns, attitudes, and brand loyalty. Only list relevant details.

What problem does the persona want to solve or which benefit does the character seek? Why would the persona want to use or buy the product?

d in

www.romanpichler.com

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### User persona



Peter

Works as product manager for a midsized company.

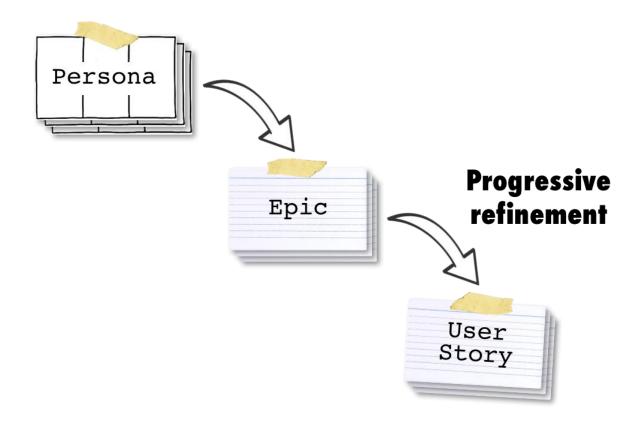
Is 35 years old, holds a marketing degree.

Has got experience working as a product owner on software products with agile teams.

Has had some Scrum training. Has managed mature products successfully. Now faces the challenge of creating a brand-new product.

Wants to leverage his agile knowledge but needs advice on creating innovative product using agile techniques.

### Flow of user stories



### User stories and the 3Cs

#### **CARD**

Kartu ini adalah penjelasan singkat tentang siapa, apa, dan kenapa dari sebuah user story

"Sebagai User yang terdaftar, saya ingin untuk me-reset Password saya, supaya saya bisa kembali ke website ini apabila saya lupa Password saya.

#### **CONVERSATION**

Melalui diskusi, Product Owner dan Scrum Team dapat memiliki pemahaman yang sama terhadap tujuan dan fungsi, serta hambatannya

Untuk fitur Password Reset kita, contoh pertanyaannya adalah:

- Autentikasi seperti apa yang kita butuhkan?
- Informasi apa saja yang kita butuhkan tentang user?
- Apakah ada tipe user berbeda yang harus kita pertimbangkan

#### **CONFIRMATION/CRITERIA**

Hasil dari diskusi diatas dapat dirangkum menjadi **Acceptance Criteria.** Sebuah User Story yang baik adalah yang dapat di test. Bagaimana product owner bisa setuju bahwa story tersebut telah terimplemen sesuai? Dan kapan sebuah story dapat menjadi "DONE"

#### Acceptance Criteria dari fitur Password Reset kita mungkin adalah :

- Username, Password, dan Email wajib diisi
- Password bisa 6 200 character
- Password disimpan pada sebuah database yang ter-enkripsi dan menggunakan standar AES-256

### Sample user stories

- As a Group Admin, I want to create a new group, so that I can easily communicate with all group members.
- As a Group Admin, I want to assign Group Admin privileges to another group member, so that they can also administer the group.
- As a Group Member, I want to mute notifications for a group, so that I can minimize frequent notifications on my mobile device.

# INVEST

#### Sebuah User Story yang baik, adalah User Story yang memenuhi kriteria INVEST.

1	Independent	Sebuah Product Backlog Item (PBI) bersifat independent dan tidak memeliki ketergantungan terhadap PBI yang lain
N	Negotiable	PBI bukanlah sebuah requirement explisit, dan masih bisa di diskusikan
V	Valuable	PBI memiliki value terhadap stakeholder
Е	Estimate-able	PBI harus dapat di estimate
S	Small	PBI tidak terlalu besar sehingga sulit untuk mengestimasi story pointnya
Т	Testable	PBI harus menganduk informasi untuk melakukan development test



**What is MVP or Minimum Viable Product** 

### MoSCoW

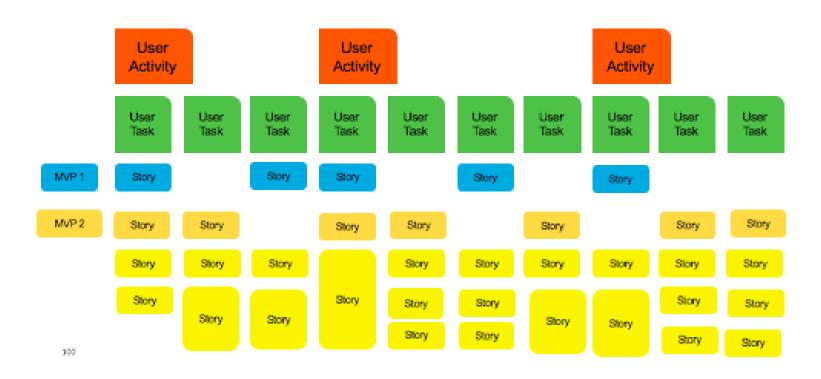
### MoSCoW Method

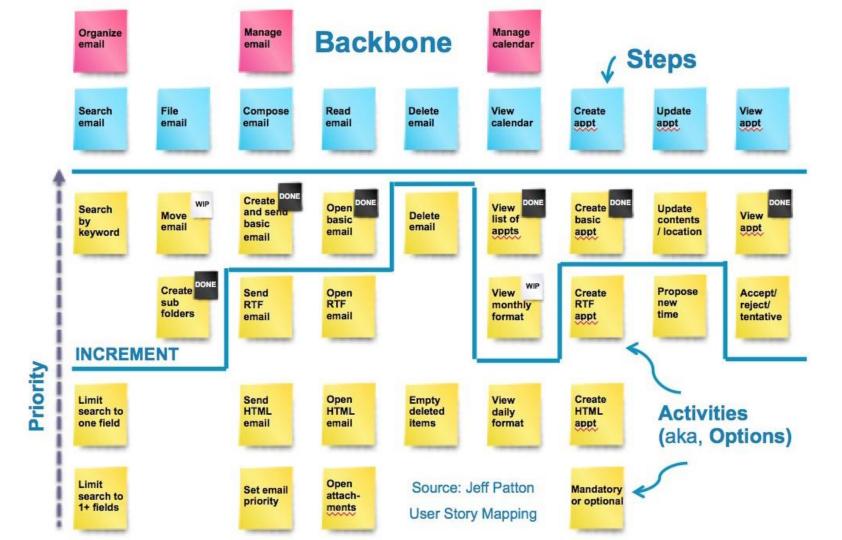
- M MUST have (Critical for success)
- S SHOULD have if possible (If not time critical)
- C COULD have if it does not affect anything else (Include if little development cost)
- W WON'T have this time, but WOULD

  like in future

  MoSCOW method Dai Clegg of Cracle UK for DSDM

### **Map and Prioritize**







#### THE GO PRODUCT ROADMAP



	<b>DATE</b> The release date or timeframe	Date or timeframe	Date or timeframe	Date or timeframe	Date or timeframe	
0	NAME The name of the new release	Name/version	Name/version	Name/version	Name/version	
<b>(6)</b>	<b>GOAL</b> The reason for creating the new release	Goal	Goal	Goal	Goal	
	FEATURES The high-level features necessary to meet the goal	Features	Features	Features	Features	127
	METRICS  The metrics to determine if the goal has been met	Metrics	Metrics	Metrics	Metrics	

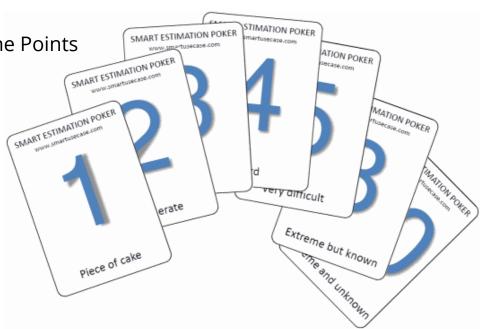


### **ESTIMATIONS IN SCRUM**

Story Points (or not?)

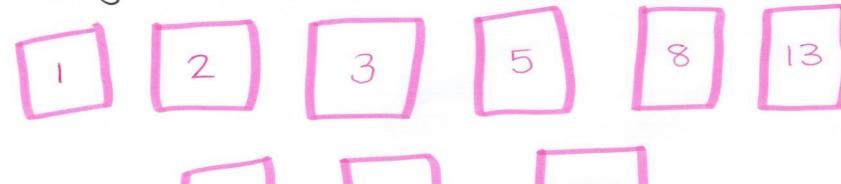
Planning Poker to Collectively Estimate the Points

Hours?

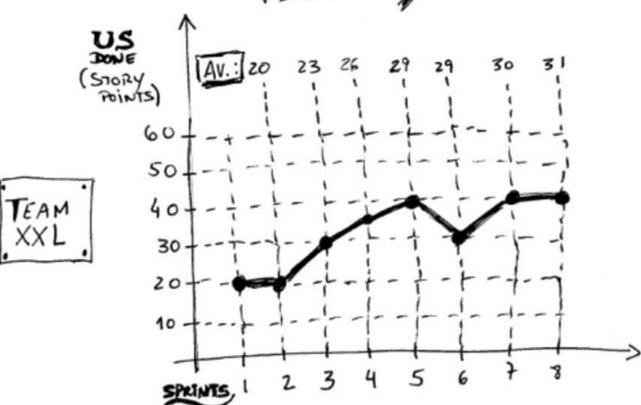


### estimation

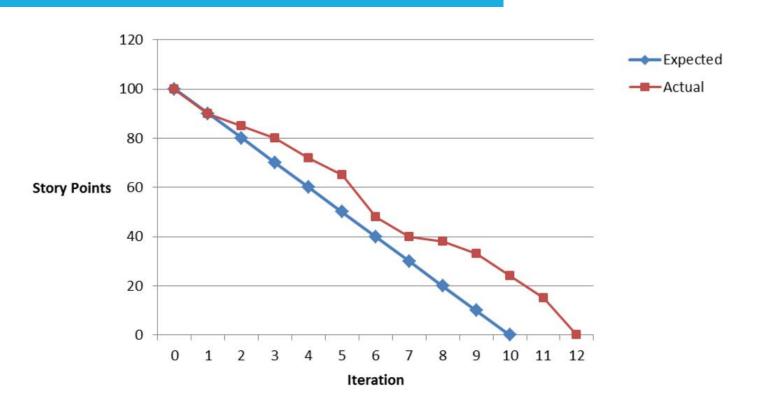
- · It will be wrong. That's ok.
- ·relative estimation -> they don't change if you get faster
  · story points · why? Make decisions
- · story points



## = VELOCITY =



### **BURN DOWN CHART**



### **VELOCITY**

 Velocity is a measure of the amount of work a Team can tackle during a single Sprint and is the key metric in Scrum.

• Velocity = No. of Story Points/No. Of iteration





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# SCRUM TEST

1.	When do development team members become the exclusive owner of a	
	Sprint Backlog item?	
	Never. All Sprint Backlog items are "owned" by the entire development	

team, even though each one might be done by an individual development

- ☐ Whenever a team member can accommodate more work.
- ☐ At the Sprint Planning meeting
- During the Daily Scrum

team member.

- 1. When do development team members become the exclusive owner of a Sprint Backlog item?
- Sprint Backlog item?

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team, even though each one might be done by an individual development

- team member.

  Whenever a team member can accommodate more work.
- ☐ At the Sprint Planning meeting
- ☐ During the Daily Scrum

2. What is the main reason for the Scrum Master to be at the Da	ily Scrum?
□ To write down any changes to the sprint backlog, including	adding new items,

- and tracking progress on the burndown.

  He or she does not have to be there; He or she only has to ensure the
  - Development Team has a daily scrum.
- To gather status and progress information to report to management.

To make sure every team member answers the 3 questions.

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3. The	e time-box for the Sprint Planning meeting is?
	Manathalice
	Monthly
	Whenever it is done
	4 hours
	O become for a property to a project. For about a project of the consulty about a
	8 hours for a monthly sprint. For shorter sprints it is usually shorter.

- 3. The time-box for the Sprint Planning meeting is?
  - Monthly
    Whenever it is done
- Whenever it is done

4 hours

√ 8 hours for a monthly sprint. For shorter sprints it is usually shorter.

4. The purpose of a Sprint is to produce a done increment of working product.
□ True
☐ False

4. The purpose of a Sprint is to produce a done increment of working product.

True

□ False

5. What does it mean to say that an event has a time hev?
5. What does it mean to say that an event has a time-box?
The event must at least take a minimum amount of time.
□ The event must happen at a given time.
☐ The event must take no more than a maximum amount of time
□ The event must happen at a set time

5. What does it mean to say that an event has a time-box?

The event must happen at a set time

- ☐ The event must at least take a minimum amount of time.
- The event must at least take a minimum amount of time.
- ☐ The event must take no more than a maximum amount of time
- √ The event must take no more than a maximum amount of time

6. W	hen is a Sprint over?
	When all the tasks are completed
	When the time-box expires
	When the product owner says it is done
	When all the product backlog items meet their definition of done

- 6. When is a Sprint over?
- □ When all the tasks are completed
- ✓ When the time-box expires
- □ When the product owner says it is done
- When all the product backlog items meet their definition of done

7. W	hat statement best describes Scrum?
	A defined and predictive process that conforms to the principles of scientific management
	A cookbook that defines best practises for software development
	A complete methodology that defines how to develop software
	A framework within which complex products in complex environments are developed

7	What statement	hoct	doccriboc	Scrum	2
	vviiai Siaitiiitiii	nesi	<b>UESCLINES</b>	Scruii	1

- □ A defined and predictive process that conforms to the principles of scientific management
- □ A cookbook that defines best practises for software development
- □ A complete methodology that defines how to develop software

✓ A framework within which complex products in complex environments are developed

8. The maximum length of the Sprint Review(time-box) is
4 hours for a monthly sprint. It is shorter for shorter sprints.
□ As long as needed
□ 1 day
□ 4 hours and longer if needed
□ 2 hours

- 8. The maximum length of the Sprint Review(time-box) is
- √ 4 hours for a monthly sprint. It is shorter for shorter sprints.
- □ As long as needed

1 day

- 4 hours and longer if needed
  - □ 2 hours

9. Wł	no has the final say on the order of the Product Backlog
	The product owner
	The stakeholders
	The development team
	The scrum master
	The CEO

9. Who has the final say on the order of the Product Backlog

- √ The product owner
  - The stakeholdersThe development team
  - □ The scrum master
  - ☐ The CEO

10. V	10. Why is the daily scrum held at the same time and same place?			
	The product owner demands it			
	The consistency reduces complexity			
	The place can be named			
	Rooms are hard to book and this lets it be booked in advance			

10.	Why is the dail	y scrum held	at the same tir	me and same p	lace?

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The place can be named

- √ The consistency reduces complexity
- □ Rooms are hard to book and this lets it be booked in advance

11. When might a Sprint be abnormally terminated?	

- When the sales department has an important new opportunity
- When the sprint goal becomes obsolete

When it becomes clear that not everything will be finished by the end of the

- **Sprint**
- When the development team feels that the work is too hard

- 11. When might a Sprint be abnormally terminated?
- When the sales department has an important new opportunity
  - When the sprint goal becomes obsolete

When it becomes clear that not everything will be finished by the end of the

- **Sprint**
- When the development team feels that the work is too hard

12. The length of a sprint should be		
□ Short enough to keep the business risk acceptable to the product owner		
□ Short enough to be able to synchronize the development work with other business		
events		
□ No more than 1 month		
□ All of these answers are correct		

12. The length of a sprint should be

All of these answers are correct

- □ Short enough to keep the business risk acceptable to the product owner
- □ Short enough to be able to synchronize the development work with other business
  - events
- □ No more than 1 month

·	What are the 2 primary ways a scrum master keeps the development team working at its highest level oductivity
	By keeping high value features high in the product backlog
	By facilitating development team decisions
	By starting and ending the meetings at a proper time

By removing impediments that hinder the development team

13, What are the 2 primary ways a scrum master keeps the development team working at its highest level of productivity

- □ By keeping high value features high in the product backlog
   ✓ By facilitating development team decisions
- By starting and ending the meetings at a proper time
- √ By removing impediments that hinder the development team

14. It is mandatory that the product increment be released to production at the end of
every sprint.
□ True
□ False
u i dise

14. It is mandatory that the product increment be released to production at the end of every sprint.

True

False

15. The CEO asks the development team to add a very important item to the sprint that is in progress. What should the development team do?
Inform the product Owner so he/ she can work with the CEO
Add the item to the current sprint without any adjustments
Add the item to the current sprint and drop an item of equal size

Add the item to the next sprint

15. The CEO asks the development team to add a very important item to the sprint that is in progress. What should the development team do?

- ✓ Inform the product Owner so he/ she can work with the CEO
- Add the item to the current sprint and drop an item of equal size
- □ Add the item to the current sprint and drop an item of equal size
- □ Add the item to the next sprint

16. 7	The development team should have all the skills needed to
	Do all the development work, except for specialized testing that requires additional

- tools and environments
   Turn the product backlog items it selects into an increment of potentially releasable product increment.
- Complete the product as estimated when the date and cost are committed to the product owner

- 16. The development team should have all the skills needed to
- To The development team enough have all the entire house to
  - tools and environments

    ✓ Turn the product backlog items it selects into an increment of potentially releasable product increment.

Do all the development work, except for specialized testing that requires additional

Complete the product as estimated when the date and cost are committed to the product owner

17. What is the recommended size of a scrum development team?	
□ 9	
□ 3-9	
□ Minimum 7	
□ 7 plus or minus 2	

- 17. What is the recommended size of a scrum development team?

- 3 9
- Minimum 7
- 7 plus or minus 2

18. V	When does the next sprint begin?
	Immediately following the next sprint planning
	When the product owner is ready
	Immediately after the conclusion of the previous sprint
	Next Monday

- 18. When does the next sprint begin?
- Immediately following the next sprint planning
- N/han the product owner is ready
- □ When the product owner is ready
   ✓ Immediately after the conclusion of the previous sprint
- Next Monday

19. When multiple teams work on the same product, each team should maintain a separate product backlog.

True

False

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True

False

20. How much work must a development team do to a product backlog item it selects for a sprint?				
	As much as it can fit into the sprint			
	Analysis, programming, design, testing and documentation			
	As much as it has told the product owner will be done for every product backlog item it			

selects in conformance with the definition of done

All development work and at least some testing

- 20. How much work must a development team do to a product backlog item it selects for a sprint?
  - As much as it can fit into the sprint
  - □ Analysis, programming, design, testing and documentation
  - As much as it has told the product owner will be done for every product backlog item it selects in conformance with the definition of done
- □ All development work and at least some testing

21, Which 2 things must the development team do during the first sprint?
□ Develop a plan for the rest of the release
<ul> <li>Determine the complete architecture and infrastructure of a product</li> </ul>
<ul> <li>Deliver an increment of a releasable software</li> </ul>
<ul> <li>Develop and deliver at least 1 piece of functionality</li> </ul>
<ul> <li>Create the complete product backlog to be developed in subsequent sprints</li> </ul>

- 21. Which 2 things must the development team do during the first sprint?
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- Determine the complete architecture and infrastructure of a product Deliver an increment of a releasable software
- Develop and deliver at least 1 piece of functionality
- Create the complete product backlog to be developed in subsequent sprints

22. When many development teams are working in a single product, what best describes the	
definition of "done"	

- □ Each development team defines and uses its own. The differences are discussed and reconciled during hardening sprint.
  - □ All development teams must have a definition of done that makes their combined work potentially releasable
    - Each development team uses its own but must make their definition clear to all other teams so the differences are known
  - □ It depends

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  - □ It depends

23. T	he time-box for a daily scrum is
	4 hours
	The same time of day everyday
	15 minutes
	2 minutes per person
	15 minutes for a 4 week sprint. For shorter sprints it is shorter

- 23. The time-box for a daily scrum is

  4 hours
  - The same time of day everyday
- √ 15 minutes□ 2 minutes per person
- ☐ 15 minutes for a 4 week sprint. For shorter sprints it is shorter

24. The 3 pillars of empirical process control are	
□ Inspection, Transparency, Adaptation	
□ Planning, Inspection, Adaptation	
□ Planning, demonstration, retrospective	

24. The 3 pillars of empirical process control are

- ✓ Inspection, Transparency, Adaptation
  - □ Planning, Inspection, Adaptation
- □ Transparency, Eliminating waste, Kaizen
- □ Planning, demonstration, retrospective

25. Who is responsible for managing the work during a sprint?
□ Product Owner
□ Development Team
□ Scrum Master
□ The most senior member of the team

- 25. Who is responsible for managing the work during a sprint?
  - □ Product Owner✓ Development Team
  - □ Scrum Master
  - ☐ The most senior member of the team

26. An organization has decided to adopt scrum, but the management wants to o	change the
terminology to fit the terminology already used. What will likely happen if this is d	lone?

- □ Without a new vocabulary as a reminder of the change, very little change may actually happen
- ☐ The organization may not understand what has changed with Scrum so the benefits of Scrum would be lost
- Management may feel less anxious
- □ All of the above

- 26. An organization has decided to adopt scrum, but the management wants to change the terminology to fit the terminology already used. What will likely happen if this is done?
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- Management may feel less anxious
- ✓ All of the above

27. V	Which of the below are roles on a scrum team?
	Customers
	Development Team
	Product Owner
	Scrum Master
	Users

- 27. Which of the below are roles on a scrum team?
- □ Customers
  - ✓ Development Team
  - ✓ Product Owner
  - ✓ Scrum Master
  - □ Users

- 28. During the daily scrum, the scrum master's role is to

  □ All answers apply
  - ☐ Teach the development team to keep the 15 minute time-box
- Manage the meeting in such a way that each member gets a chance to talk
  - □ Lead the discussions of the development team
- □ Make sure that all 3 questions have been answered

- 28. During the daily scrum, the scrum master's role is to

All answers apply

- √ Teach the development team to keep the 15 minute time-box
- □ Manage the meeting in such a way that each member gets a chance to talk
  - Lead the discussions of the development team
- ☐ Make sure that all 3 questions have been answered

29. The development team should not be interrupted during the sprint. The sprint goal should remain
intact.Based on this which of the following is FALSE

- ☐ The product owner can help clarify or optimize the sprint when asked by the development team.
- ☐ The sprint backlog is fully formulated during the sprint and does not change during the sprint.
- As a decomposition of the selected backlog items, the sprint backlog changes and may grow as the work emerges
- ☐ The development team may work with the product owner to remove or add work if it finds it has less or more capacity than expected.

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30. During a sprint the development team determines that they will not be able to finish
the complete forecast. Who should be present to review and adjust the work selected?
<ul> <li>The scrum master, project manager and the development team</li> </ul>
The product owner and the development team

The product owner and all stakeholders

The development team

- 30. During a sprint the development team determines that they will not be able to finish the complete forecast. Who should be present to review and adjust the work selected?
- the complete forecast. Who should be present to review and adjust the work selected:
  - The scrum master, project manager and the development team
  - ☐ The product owner and all stakeholders

The product owner and the development team

The development team

31. l	Jpon what type of process control is scrum based?
	Empirical
	Hybrid
	Defined
	Complex

- ✓ Empirical □ Hybrid

  - Defined

□ Complex

32. The product backlog is ordered by
Ciza where small items are at the to

- □ Size, where small items are at the top and larger ones at the bottom
- □ Risk, where safer items are at the top and riskier items at the bottom
- □ Least valuable items at the top and most valuable at the bottom
- □ Items are randomly arranged
- □ Whatever is deemed most appropriate by the product owner

- 32. The product backlog is ordered by
  - Size, where small items are at the top and larger ones at the bottom
- Risk, where safer items are at the top and riskier items at the bottom

  - Least valuable items at the top and most valuable at the bottom
- Items are randomly arranged Whatever is deemed most appropriate by the product owner

33. Which statement best describes a product owner's responsibility
Optimizing the value of the work the development team does
□ Directing the development team
Managing the project and ensuring that the work meets the commitment towards

the stakeholders

Keeping stakeholders at bay

33.	Which	statement	best des	cribes a	product	owner's resi	oonsibility	
00.		Otatoo	2000	011800 G	product	0111101 0 100	0011011011111	

Optimizing the value of the work the development team does

Managing the project and ensuring that the work meets the commitment towards

- Directing the development team
- - Keeping stakeholders at bay

the stakeholders

34. Scrum does not have a role called "project manager"
□ True □ False

34. Scrum does not have a role called "project manager"

√ True
□ False

35. A development sprint can be extended if the selected items are not completed.
□ True □ False

35. A development sprint can be extended if the selected items are not completed.
□ True
√ False



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## IF YOU WANT TO TAKE CERTIFICATION

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